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NEWSPAPER OF NATIONAL AVIATION UNIVERSITY

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2019

Dear Ladies!



I sincerely congratulate you on the Holiday of Spring!

I'd like to wish you health and beauty, happiness and joy, mutual love and dedicated friendship, coziness and inner harmony, inexhaustible patience and wisdom, prosperity in your families, and creative inspiration in all endeavors!

Stay just as gentle, radiant, fun, smart and beautiful as you are! Let your smiles remain unique and impeccable. Let every day be filled with bright news, and let your every goal be achieved.

*Sincerely,
Volodymyr Isaichenko*

ACADEMIC REPORT 2018



NAU Vice-Rector for Scientific Work Volodymyr Kharchenko, speaking at the Academic Council, has reported on the University's academic performance in 2018.

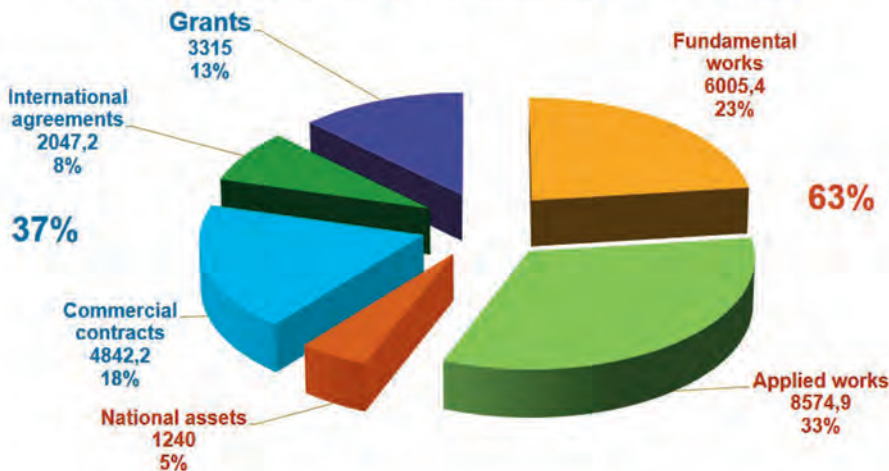
Among the main academic directions, he noted: modern aviation and space technologies, aerospace systems for monitoring and navigating moving objects, information technologies, integrated information protection, environmental protection, etc.

In line with priority directions of science and technology development in 2018, NAU Academics performed 22 scientific and research works (both fundamental and applied) with the year's funding from the state budget at UAH 14,580,030 (including UAH 6,005,400 for fundamental research and UAH 8,574,900 for applied research).

In 2018, NAU concluded three international agreements and received five grants for the relevant programs.

In particular, in the framework of the Horizon 2020 program: Grant Agreement No. 641517 - Ukraine *"Reproduction of Awareness and Innovation in Ukraine based on EGNSS"*, Italy (leader - Volodymyr Kharchenko); Grant Agreement No. 769627 - Ukraine *"Managing the Impact of Aviation Noise through New Approaches"*, France (leader - Oleksandr Zaporozhets); Grant Agreement No. 769220 - Ukraine *"Prospects for Aeronautical Research in Europe"*, Portugal (leader - Oleksandr Zaporozhets); and Grant Agreement No. 706115 - Ukraine *"Creating Public Instruments for Aviation"*, Germany (leader - Oleksandr Zaporozhets). Within the Seventh Framework Agreement, there was Grant Contract No. 265943-Ukraine *"Network and Coordination of Aviation Noise Research"*, France (leader - Oleksandr Zaporozhets). Annual financing within grant programs amounts to UAH 3,315,000, as well as UAH 2,047,200 – within international agreements, and UAH 4,842,200 – within commercial contracts.

R&D funding in 2018 (thousands of hryvnias)



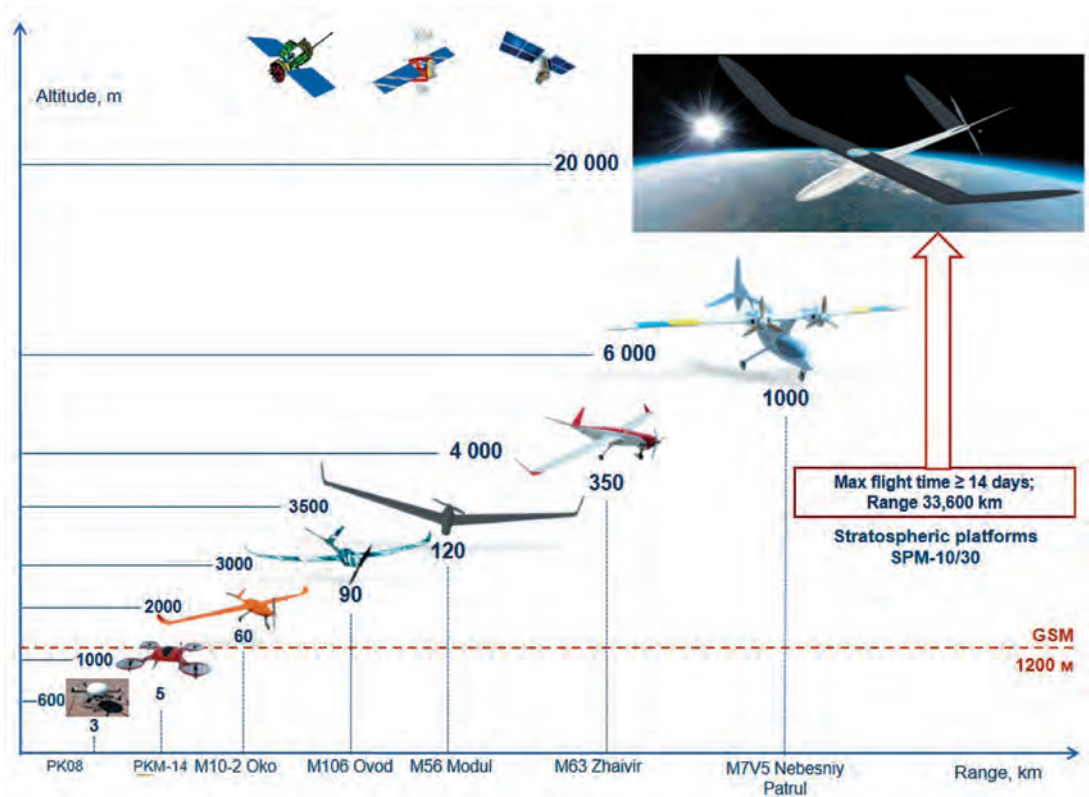
R&D Funding in 2010-2018 (thousands of hryvnias)

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total funding (thousands of hryvnias)	22277	22575,6	31915,1	26831,9	18154,9	18355	17596,3	27395,8	26024,7

The University continues its complex efforts on the development and preparation for mass production of modern unmanned aerial vehicles and their introduction to their integrated use in the national economy and ensuring national security.

National Aviation University was included in TOP 100 Ukrainian higher educational facilities and research institutions of the Ministry of Education and Science of Ukraine with access to international Scopus and Web of Science databases provided for the funds from the state budget.

In 2018, a total of 166 publications drafted by the university's academic and teaching staff were posted in Scopus (Hirsch Index 20). In Web of Science, 74 publications were published in 2018 (Hirsch Index 15).



During the reporting period, University scholars drafted **101 monographs**, published **106 textbooks and manuals**, released **1,047 scientific articles** in national peer-reviewed journals, 448 articles in international specialized journals, and **1,724 reports** for scientific conferences.

The employees of our Scientific and Technical Library created e-versions of 23 University journals, which are indexed in international online scientific databases, while four of them are recognized to have an impact factor.

In 2018, National Aviation University hosted **108 conferences and seminars**, 42 of which were international. Also under the auspices of ICAO, NAU held the VIII World Congress "Aviation in the XXI century" - "Safety in Aviation and Space technology".

University specialists presented their achievements and developments at 18 professional and profile exhibitions, including at the International Forum "INNOVATION MARKET" and the International Aviation and Space Salon "AVIASVIT-XXI".

In 2018, **sixteen specialized academic boards** operated where dissertations were defended, including 12 in technical sciences, as well as special boards in economic, physical and mathematical, legal, and pedagogical sciences.

Throughout the year, 52 dissertation works were defended by the University academic and teaching staff: **15 doctoral theses** and **37 science candidate theses**. In 2018, eight university scholars were awarded the title of professor and five – associate professor

Thirteen doctoral candidates and 218 graduate students continue their studies in 21 scientific directions. This includes 160 state-sponsored students and 58 students accepted on commercial basis, including 10 foreigners. This year, the 66 people enrolled for postgraduate studies: 41 state-sponsored students and 25 students on commercial basis.

In 2018, five young university scholars received scholarships from the Cabinet of Ministers of Ukraine.

Twenty-nine NAU students in 2017-2018 academic year won All-Ukrainian contests of **students' scientific works** on natural, technical, and humanitarian sciences. Students were granted prizes at the All-Ukrainian Student Olympiad in the following programs: "Land Cadaster", "Design of Publishing and Printing Production", "Fundamentals of Labor Protection", "Civil Protection", "Management of Foreign Economic Activity", "Marketing", "Law", "Aircraft and Rocket Engineering", "Air Navigation", and "Transportation Organization and Transport Management".

Students and young scholars from the University in 2018 were trained

and underwent internships in Poland, Germany, Belgium, the United Kingdom, China, the Czech Republic, Hungary, the United States, and South Korea.

National Aviation University was recognized **a leader in higher education** and **awarded the Grand Prix** in the nomination "Innovative Education Development and Modern Pedagogical Technologies". At the International Specialized Exhibition "Education and Career-2018", NAU received **the Diploma "Leader of Scientific and Technical Performance"**. At the "Innovation in Modern Education" Exhibit, the University was **awarded with a gold medal and a diploma** in the nomination "International cooperation as a factor of modern development of an educational institution in the conditions of globalization and internationalization of education".

According to the indicators of educational, scientific, and international activity in the consolidated ranking of higher educational facilities, the university holds the 12th spot in Ukraine and fifth in Kyiv (two spot up compared with 2017). In the Webometrics ranking, among 327 Ukrainian universities, NAU, ranked 22nd and 19 positions, while in Ukraine's TOP-200 higher educational facilities, NAU came 19th.

High positions in the rankings, recognition, and rewards have been achieved due to the fruitful work of the staff of National Aviation University.

Director of Partnerships at University of Central Lancashire (Preston) Paul Rowe, Head of Northumbria University's Transnational Education International Development Tom Allardyce, and Head of Cormack Consultancy Group, the company promoting international education in the UK, Charles Cormack, during a visit to the University expressed their interest in cooperation.

During the meeting, Rector Volodymyr Isaienko stated: "Firstly, our university is interested in joint educational programs and projects that involve students receiving double diplomas. Secondly, we strive to improve and expand our educational and scientific base and develop new joint projects, which will involve not only the staff, but also students and graduate students."

In turn, Paul Rowe, noted that University of Central Lancashire offers pilot training, which includes only theory classes, so acquiring practical knowledge in the field is key in cooperation with NAU.

Tom Allardyce has noted that University of Northumbria, praised for its high level of research and business orientation, is interested in expanding cooperation with Ukrainian universities, including with NAU.

The guests learned about the University's educational process, visited the NAU Museum, the Air Training Hangar, and the "Virzh" Scientific and Production Center for Unmanned Aeronautics.

NEW HORIZONS OF COOPERATION WITH UK UNIVERSITIES



"SILK ROAD" to NAU



The issue of developing joint research projects and opportunities for students from the People's Republic of China in Ukraine was discussed with representatives of the Jiangnan Silk Road Cultural Exchange (PRC).

The Chinese institution was represented by its Director-General Wang Yitan, General Manager Dong Jian, Deputy General Manager Huang Tebowei, Deputy Director General Xu Jun, and Foreign Language Consultant Liu Xiyuan.



VISIT OF UKRAINIAN-ARAB BUSINESS COUNCIL DELEGATION

President of the Ukrainian Dialogue and Communication Center (UDCC) Sheikh Emad Abu Alrub, UDCC Vice President Oleh Berezyuk, and Ivan Petukhov, President of Adamant Group of companies paid a working visit to the University.

During the meeting with the university leadership, the guests discussed the development and deepening of scientific and educational ties between Ukraine and Arab countries, as well as the creation of centers for concurrent training of specialists in the field of aviation. The parties also agreed to hold at the University Days of Arabic Culture

and meetings with the honorable ambassadors of 22 Arab countries. All this will promote our university and increase the number of foreign students.

The Ukrainian-Arab delegation got familiarized with the University's educational and R&D base. The guests showed particular interest in the research and development of unmanned aerial vehicles.

Following the talks, the parties started the process of preparing a Memorandum on cooperation in education between the Ukrainian and Arab sides.

COOPERATION WITH ICAO EUROPE/NORTH ATLANTIC OFFICE



Silvia Gehrer has been appointed regional director of the Europe and North Atlantic Office of the International Civil Aviation Organization.

In an official letter addressed to the Head of the State Aviation Service of Ukraine, Oleksandr Bilchuk, and Director of ICAO Institute Galyna Suslova, ICAO's new regional director expressed confidence that cooperation and relations between National Aviation University and the Europe and North Atlantic Office of ICAO will be further developing constructively.

Ms. Gehrer expressed particular gratitude to the University leadership and that of ICAO Institute for its high professionalism in organizing and holding a workshop "Certification of Civil Aviation Aerodromes", which was of great significance to the aviation community.



ICAO HQ together with ICAO Institute hosted by NAU has held an international workshop titled Certification of Civil Aviation Aerodromes.

The main objective of the event is to harmonize and effectively implement ICAO standards and recommended practices for aviation safety, including airfield certification. The workshop was made possible through a special technical assistance project within the framework of the strategic initiative of the headquarters of ICAO - "No country left behind" - "No country is left without attention."

Training sessions were led by Chairman of the "No Country Left Behind" strategic initiative at ICAO Europe / North Atlantic Office Sarantis Poulimenakos, ICAO Middle East Office representative Mohamed Iheb Hamdi, and Ermenando Silva, representative of Airports Council International (ACI).

Opening the event, Rector Volodymyr Isaienko noted that "it is our responsibility to provide the aviation community with tools for the safety and efficiency of the aviation industry. The seminar Certification of Civil Aviation Aerodromes" is an important measure toward achieving this goal."

Director of ICAO Institute, Galyna Suslova, noted that "by implementing such projects and applying the knowledge and experience of our partners, we contribute to ensuring a higher level of aviation safety across the world."

RECURRENT TRAINING ON AVIATION SECURITY

The study of new ICAO approaches, discussion of critical safety elements, open debate and recommendations on the practical implementation of aviation safety management system are key aspects of the training course titled "Aviation Safety Management System". The training was led by Director of Institute Galyna Suslova and instructors Dmytro Buhaiko and Oleksandr Bashta.

Among the participants were top officials from the State Aviation Service of Azerbaijan, chief officers from Silk Way West (Azerbaijan), Aerovision, and Atlas Jet Ukraine (Ukraine) air carriers, and officials from international airports of Almaty (Kazakhstan), Marculesti (Moldova), Dnipro, and Lviv (Ukraine).

A similar training was conducted for the senior management of International Joint Stock Aviation Company "URGA" (Ukraine). The air carrier operates flights across various regions across the world, including flights chartered by the United Nations.

INTERNATIONAL WORKSHOP CERTIFICATION OF CIVIL AVIATION AERODROMES



According to the representative of the ICAO European/North Atlantic Bureau, Sarantis Poulimenakos, such meetings offer the opportunity to combine efforts of regulators (aviation administrations) and aviation actors (in this case, airport operators) to effectively implement aviation safety standards.

Following the seminar, twenty-six representatives of civil aviation administrations and airport operators from Azerbaijan, Belarus, Armenia, Georgia, Kyrgyzstan, and Ukraine

received certificates of the international workshop.

The workshop became an informal forum for sharing international experience, since the participants represented countries from across Eastern Europe and Asia, while the organizers represented ICAO's regional offices of the European North Atlantic Region (Paris, France) and Middle East (Cairo, Egypt), as well as Airports Council International (Montreal, Canada).

Introduction to modern approaches to aviation safety management was the goal of the advanced training course titled "System approach to aviation safety management for heads of aviation companies". Head of training was NAU instructor Dmytro Buhaiko, supervised by Director of ICAO Institute Galyna Suslova. The training was attended by senior managers of Ukrainian air carriers Rosavia, Jonica, and Ukragroavia.

The advanced training course was hosted by Rosava Airlines LLC. The airline's feature is providing sophisticated aviation services in Antarctica, fighting forest fires, and working in high-risk regions, which requires developing and implementing enhanced aviation safety measures.

SYSTEMIC APPROACH TO AVIATION SAFETY MANAGEMENT FOR UKRAINIAN AIRLINE EXECUTIVES



CONTRACT SIGNED BETWEEN NAU - RADAR PLANT

Key positions of the Agreement inked by NAU Rector Volodymyr Isaienko and Chairman of the Board, CEO of Kyiv Plant "Radar" Volodymyr Voronin include ensuring internships and employment for university students and university graduates.

"We will prepare highly skilled personnel for the enterprise. As early as in the second or third year of study, our students will have practice hours at the plant. We have the opportunity to set up a dual education scheme where students will study at the university for a few months, then switching to practice at the plant. Due to said cooperation, we will prepare engineering and scientific and technical personnel, able to implement modern technology," said Volodymyr Isaienko.

In turn, the CEO of PJSC "Kyiv Plant 'Radar'" Volodymyr Voronin, said: "I came here with specific requests and challenges we need to work together to solve. Addressing the students, I'd like to say that our industry is very promising, while our common task is to teach you and provide high-paying jobs."



NAU Vice-Rector for Scientific Work Volodymyr Kharchenko and Deputy Head of Bila Tserkva Cargo Aviation Complex Oleksandr Pasichnyk Bila Tserkva Cargo Aviation Complex during their meeting discussed a possibility for the airfield in Bila Tserkva to host NAU's unmanned aerial vehicles. The parties also discussed an option to have launch at the Company's capacities in the long run serial production of UAVs. The meeting was also attended by Mykhailo Matyichyk, Chief Designer of UAV R&D Center "Virazh" and Oleksiy Mikhatsky, a leading UAV engineer and designer.

COOPERATION WITH "BILA TSERKVA CARGO AVIATION COMPLEX"



Volodymyr Kharchenko informed that the University had developed "seven types of unmanned aerial systems with electric motors and piston engines. The next step is the development of stratospheric unmanned aerial systems to provide a global coverage area and the use of the Internet without a satellite. And the work of our aviation specialists in this direction is continuing actively. Therefore, the testing of UAVs is an integral part of the process." After analyzing the capabilities, the condition, the state, the load of, and infrastructure at a number of airfields in Ukraine, Bila Tserkva is seen as the most promising one for carrying out these types of work.

Oleksandr Pasichnyk said: "Thanks to the high-quality work of the University's management, it is planned to test and launch more serious aircraft, which in the future provides for their serial production. To this end, NAU needs an aerodrome to conduct test flights. Since we already have experience in cooperation with the University, our company is ready to help science in the implementation of modern technologies into practical use."

Also, the parties discussed possibilities of training specialists in the areas of airfield service, search and rescue, aviation security, ornithology, aviation safety, quality management system, etc.

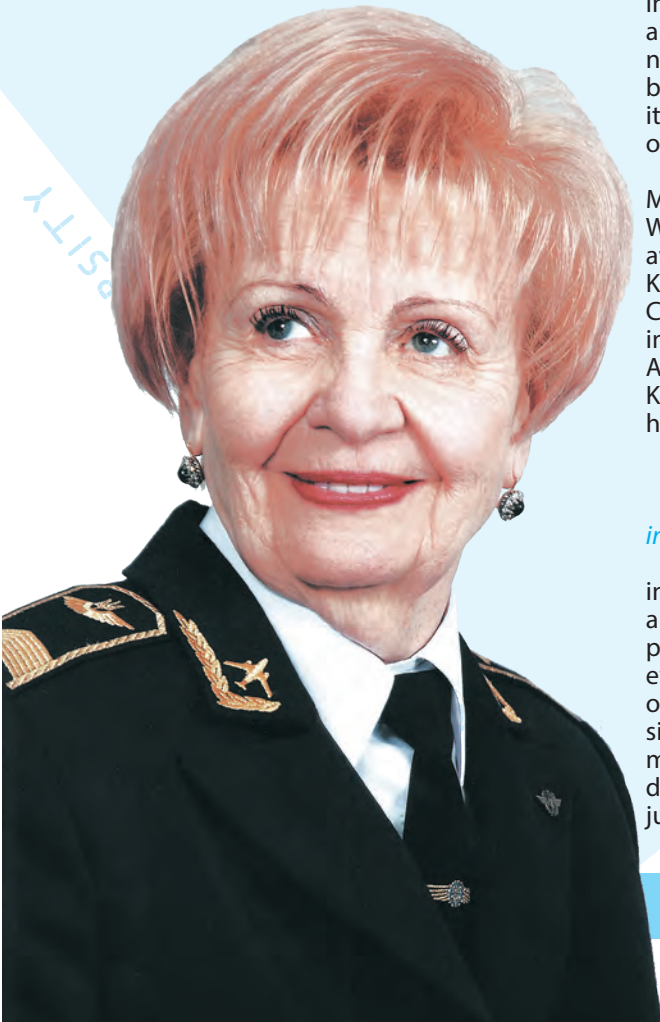
Galyna Suslova

is a Director of ICAO Institute, ICAO National Aviation University Implementation Coordinator, NAU Professor, Ukraine's Honorary Education Officer who has received honorary awards in Ukraine, Bulgaria, Belgium, Lithuania, and Hungary. Also, Ms Suslova is an Honorary Professor with Korea Aerospace University in South Korea and Vilnius Technical University, Member of UN Women, Honorary Member of the United States Air and Space Museum.



Photo from Galyna Suslova's personal archive

Lady Aviation



You've traveled across the globe. You can easily be referred to as a cosmopolitan...

Yes, I've visited many countries around the world. But I wouldn't call myself a cosmopolitan. I could work in any country, but I've always wanted to go back to Ukraine. I started my career in Lithuania, at Vilnius University.

In Lithuania, everyone speaks their native language, but there is no intolerance toward Russian. People are confident that there will be no nation without own language. To become a citizen, you must master it. In Vilnius, almost every district offers free Lithuanian courses.

I met my future husband Mykola at an airfield in Vilnius. We felt each other's vibes right away. When he was transferred to Kyiv Higher Engineering Aviation College, I moved along. The first impression of the capital was nice. A green and beautiful city, that long Khreshchatyk Street... And people here are very nice, too.

How did your career of an interpreter start?

My first business trip as an interpreter was to Klaipeda, where a merchant ship called to the local port. It was a real shock! On the ship, everyone was speaking to each other, but I couldn't understand a single word. The sailors spoke a wild mixture of languages. I stood on the deck, understood nothing, and tears just filled my eyes. Suddenly, I hear

the boatman shouting to someone in English: "How do you do that?" And I realized that I could be useful.

In Soviet times, there were few who knew English. People would say: "She speaks a foreign language in class. We must have someone from the Party Committee come and check what she says." I wrote a textbook in English. And I had to translate it into Russian – otherwise it would have never been published.

Tell us about the unique profession of a navigator?

A navigator is someone who navigates an aircraft in flight. Women rarely take up this position, especially in the Soviet Union. I was vetted, instructed, explained some political nuances. That's because foreign pilots always asked about our country, they were wondering why Soviet people almost don't travel abroad.

When the Soviet leadership presented an airplane as a gift, say, to Indira Gandhi or Saddam Hussein, it was necessary to teach the crew to operate it. For two months, the pilot worked with our instructor who did not speak English. I was invited to interpret. After ground preparation, flight training began: 13 flights before noon and 11 in the afternoon. Communication went through me because the flight controller also did not speak English.

Then the "posh" life began – flights on routes, on which subsequently our leadership would fly. We had to earn everything about aerodromes, like the length of runways and the like. I sat in the cockpit between the commander and the second pilot.

This one time, the Egyptians got from us a Tu-134 plane. Pilot training was conducted in Ulyanovsk (now - Simbirsk, Russia). So we approach the plane... The pilots laid their rugs under the wing and began praying in English – so that I could understand. At first, they thanked Allah who did not make them a woman, and then they asked him for forgiveness as they had to follow a woman's commands. I smiled: "Now let's get on board..."



Photo from Galyna Suslova's personal archive

How important is it for pilots to speak English?

ICAO has set very strict standards for pilots and flight controllers to have English proficiency. Each pilot must have no less than the fourth level of aviation English. For example, there was a plane flying to the JFK International Airport in New York. The plane got into a powerful air counterflow. So fuel consumption jumped, while the speed was low. It approached the airport with red lights on – there was almost no fuel left. But at that airport, planes hang in long lines as every minute there's some take-off or landing. The pilot calls a flight controller: "I request an emergency landing!" Such request means that the airport gets shut down and all other planes are asked to change their landing site. The pilot should

have said: "Allow priority landing." The airport was shut down, that plane landed safely, but when they found out all the circumstances, the air carrier was fined.

ICAO Institute, which you head, regularly conducts advanced training courses on aviation safety...

Aviation is safer than road traffic. However, in the sky, safety depends on both a mechanic and a therapist, who allowed the pilot with fever to fly a plane, as well as on a cleaner who failed to notice an explosive device. In Aswan (Egypt), a camel once walked through a hole in the fence, right on the runway, and there was a collision with an An-26 plane that was taking off. The crew died in the accident...

Until the 2000s it was prestigious to keep the door open in the

cockpit – to show that the crew was calm and confident, and that the flight was safe. But after the terrorist attacks started, not only the armored door was installed, but also a lock was inserted, which could not be opened from the outside. A flight attendant can bring something to a pilot only after a call. But the pilot is still obliged to ask: "Turn around. Is everything alright? I'm opening the door."

Being a female pilot is perhaps very prestigious, right?

For the past 10 years, there has been no female commander of a commercial aircraft or a second pilot in Ukraine. Gender policy requires support and promotion of female pilots. There are only a few female pilots in sports. It is difficult with women. You have to teach them and issue a certificate – and then she goes for a maternity leave... But women are more enduring than men and adapt to new conditions better...

In the distant Alaska, there is an "Lady Aviation" Club, of which I've been a member since 1992. From Anchorage, I received my membership card with an emblem of an airborne gull and a link with an invitation to Alaska: "You, who devoted yourself to aviation, are admitted to the lady aviation club."

I really enjoy life! Every morning, I feel thankful for another day. I was never rich, but I've always got by. At first, I would spend my money to ensure that my daughter gets her education completed and sees the world, and now I invest in my only granddaughter.

Galyna Suslova and Marius Janukonis, Ambassador of The Republic of Lithuania to Ukraine



2019 PHILIP C. JESSUP INTERNATIONAL LAW MOOT COURT COMPETITION
Ukrainian National Rounds
1-3 February, Kyiv, Ukraine



Philip C. Jessup International Law Moot Court Competition involves students studying to obtain professions in the legal field. This is one of the world's oldest and most prestigious moot courts.

NAU STUDENT TEAM AT WORLDWIDE MOOT COURT CONTEST

The team of NAU students of III-V years of study from the Department of International Law of Institute of International Relations entered the TOP-6 of Ukraine teams at the Philip C. Jessup International Law Moot Court Competition and will move to compete in Washington. Team NAU are Bohdan Kominko, Tatevik Margaryan, Iryna Matsun, Mykyta Pobehun, and Vladyslav Yarmolenko.

Tatevik Margaryan was among TOP 10 speakers, having shown the 8th best result, performing brilliantly at "public speaking". Bohdan Kominko showed professional skills in "legal writing".

Team NAU received invitations to international rounds in Washington as an Exhibition Team. The team will play four rounds with rivals from around the world and represent Ukraine in four friendly rounds.

Senior Consultant with the Expert and Legal Department on Public Law at the Office of Legal Examination of the Constitutional Court of Ukraine, Makar Marchuk, offered students of Law Institute a lecture titled "Founder of Ukrainian Constitutionalism", timed to the 81st anniversary of Leonid Yuzkov.

Students were told about the life of the prominent scientist-constitutionalist Leonid Yuzkov, the first Chairman of the Constitutional Court of Ukraine, his scientific achievements and civic stance. Makar Marchuk also spoke about the operations of the Constitutional Court of Ukraine.



LECTURE BY MAKAR MARCHUK TITLED "FOUNDER OF UKRAINIAN CONSTITUTIONALISM"



An art exhibition of still life paintings by students of the Department of Architecture and Design Basics of Architecture, Construction and Design Institute as held at the Kyiv Theater "Silver Island". Students presented their creative vision and comprehension of the academic tasks set before them, as well as their skills in mastering new techniques and materials.

ART EXHIBITION SHOWCASED WORKS OF STUDENTS OF DEPARTMENT OF ARCHITECTURE AND DESIGN BASICS

According to the organizer of the exhibition, Associate Professor in Architecture and Design Basics Sofia Trykolenko, the exhibit marked the start of cooperation of future artists. More exhibitions and joint projects are to follow.



Students of NAU's Faculty of Economics and Business Administration (FEBA) organized a flash mob titled "Yellow-Blue Ship" in support of Ukrainian POW sailors captured by Russia in the Kerch Strait area last November.

The action was held on the day the Moscow City Court heard the defense's appeals against the lower court's ruling to remand Ukrainians in custody. The Court of Appeal upheld the initial ruling so the sailors will remain behind bars.

FLASHMOB IN SUPPORT OF UKRAINIAN SAILORS

In support of the sailors, the students produced paper boats with their names and formed a ship of yellow-and-blue flags. They presented an appeal, delivered in Ukrainian, Russian, and English, demanding that Russia release Ukrainian prisoners of war as soon as possible. Among Kremlin captives is Andriy Drach, a Senior Lieutenant and a crew member of Ukraine Navy's Nikopol artillery boat, is a cousin of Associate Professor at the department of economics of air transportation, Olha Vovk.

Flash mobs in support of Ukrainian POW sailors are being held across the world, including in Italy, Portugal, the United Kingdom, and the United States.



The team of National Aviation University (Danylo Hovtva, Ilya Yevteyev, Pavlo Hayduk, and coach Taras Klyuchnikov) won the men's competition at the all-Ukrainian Free Pyramid Billiards Cup among students.

TOP PRIZE AT UKRAINIAN FREE PYRAMID BILLIARDS CUP

Runners up were the team of National University of Physical Education and Sports of Ukraine (NUPESU), while the third place was sealed by the team of Zhytomyr State Technical University (ZSTU).

Andriy Klesov (NUPESU) won the men's individual contest, Danylo Hovtva (NAU) won the silver prize, while the bronze went to Ilya Yevteyev (NAU) and Mykola Zaichenko (ZSTU).



In the women's team competition, for the third time, the winners were the team of NUPESU and runners up were the team of Ternopil National Economic University (TNEU).

Hanna Kotlyar (NUPESU) became the champion in women's individual competition for the second time in a row, while Liubov Zhyhailova (NUFFSU) was a silver medalist, and Yuliia Malakhova (TNEU) and Vlad Kuditskaya (NUPESU) won the bronze.

In the team ranking among the regions, Team Kyiv celebrated the win, while Zhytomyr region came second, and Kharkiv region sealed the third spot.

TABLE TENNIS CUP AT NAU

The annual table tennis competition among boys and girls were held at the NAU Sports Complex.

In the fierce struggle, the girls from the team of the International Relations Institute (Hanna Lukashova, Natalia Koshel, and Vita Radchuk) won the first prize, the team of Architecture, Construction and Design Institute (Natalia Pushkova, Daria Tymchenko, and Yulia Kolisnyk) came second, while the team of Transport Technologies Institute and Economics and Business Administration Institute (Maria Tokarska, Kateryna Kutuzova, and Vladyslava Sirenko) were on the third place.



In the competition for boys, the champions were the team of Institute of Information and Diagnostic Systems (Oleksiy Holomoz, Anatoliy Frunze, and Bohdan Zavgorodniy). The second place was awarded to the team of Aerospace Institute (Denys Kolodiy, Maksym Chulianchik, and Oleksandr Oleksandrovych), while the third best team were students from International Relations Institute (Maksym Furman, Serhiy Kalchuk, and Pavlo Shovkun).

NAU OPEN DAY

More than a thousand high school students from Kyiv and across Ukraine paid a visit to the National Aviation University.

Rector Volodymyr Isaienko wished applicants to succeed at their final school tests and expressed sincere hope to see them become NAU students.



The acknowledged staff of NAU's institutes and faculties told their young guests of opportunities and benefits of studying at the University. Future applicants received answers to all frequently asked questions, including on specialization, cost of study, number of free, government-paid spots, opportunity to study at the Department of Military Training; peculiarities and types of distance learning, and parallel learning.

Students of the Small Air Academy of Kyiv's Solomiansky district gained practical skills in virtual flight control, learning to work out the routes between cities and airports, use flight maps, and got familiarized with the ways to communicate with air traffic controllers. The training was organized by the Center of Gifted Students at NAU's Institute of Innovative Educational Technologies.

The students took virtual training flights on Tu-154 simulators and attended a pilot training "IT CLUB NAU". The demonstration of rockets by the student design bureau NAURocket, which was presented by the head of the scientific community of students, postgraduates, doctoral students, and young scientists of NAU Ksenia Semenova-Shelevitska, was of particular interest for participants.

Academy students were offered an excursion to the aerodynamic tube, where they learned in detail about the study of diffusive currents and semi-

COOPERATION WITH SMALL AIR ACADEMY



limited jet streams. They were able to find out how the flight is taking place and what role the wings play. Valeriy Orlyanskyi, a researcher with the Department of Aerodynamics and Aircraft Flight Safety, delivered a lecture titled "Scientific research in aerodynamic pipes", which offered answers to the question: Why does the plane fly? What allows it to fly? Who and how operates it and what laws of physics are applied during flights?

EFFECTIVE COMMUNICATION TECHNOLOGIES WEBINAR

Institute for Continuing Education, together with the Minsk-based Maksim Tank State Pedagogical University, held an educational webinar on "Effective Communication Technologies". Belarusian colleagues shared their experience of implementing research results that determine the needs of the professional labor market and modernize the educational process of the second higher education.

Olena Radgina, deputy director for education at Institute for Advanced Studies and Retraining of the Belarusian facility, conducted a presentation of a four-level training course on effective communication technologies for Ukrainian colleagues, revealing the course algorithm, its components, and evaluation criteria.



SCIENTIFIC AND TECHNICAL LIBRARY GETS NEW BOOKS

One hundred books were donated by the staff of Architecture, Construction and Design Institute on International Book Gifting Day. The gifts include tutorials, textbooks, monographs, and design magazines. Andriy Belyatynsky, Liliya Hnatyuk, Yuriy Doroshenko, Oleksandr Lapenko, and Oktyabrina Chemakina presented their publications.

Institute Director Oktyabrina Chemakina noted that more gifts will follow. "And whatever the technical possibilities of the Internet, a printed book, especially when written by a teacher, contributes to the student's creative development. In the journals submitted, there are template projects that designers can use to create their own."



NAU SAILORS

Sportsmen of the Pivdennyi Yacht Club at National Aviation University during a meeting with Rector Volodymyr Isaienko boasted of their achievements this season.

Dozens of cups, medals, and diplomas were won in 2018 at sailing competitions (fourteen top prizes, six silver medals, and eleven bronzes). Sailing races took place at all levels – from club regattas to the World Championship.

For the first time, the "GO FAST" Team of our yacht club took part in the International Sailing Cup in the international class of yachts PLATU 25, which was held in Riga (Latvia). Of thirty-seven crews, our team took the 18th place.

The season was also marked by two new sailing regattas, held by the NAU yacht club: "Student Sails of Hope" and "First-Year Student Cup". An excellent completion of the season became the sailing race "Southern Guard" where participants competed for the NAU Cup.



On February 7, 1906, an outstanding aircraft designer **Oleh Antonov** was born. Over the years, he has created **52 gliders** and **22 planes**, among them the largest in the world, the one capable of transporting the heaviest loads. "An" aircraft operate in more than 90 countries, with over 350 world records set, of which 310 have not been beat. Aircraft by the great designer convincingly prove that **Antonov's dreams live on...**

Oleh Antonov first learned about the sky when he was 4. He heard the story of inventor Louis Blerio flying across the Channel. The boy took mother's umbrella and ran to learn to fly.

Often, his uncle would come to visit their family. He told his nephew of aviation. It was his uncle's stories that influenced his childhood dream about the future. The boy collected photos of planes, read books, and cut out newspaper articles on aircraft construction. Subsequently, he made his own guide from those cut outs. While at school, he attended an aviation modeling training course.

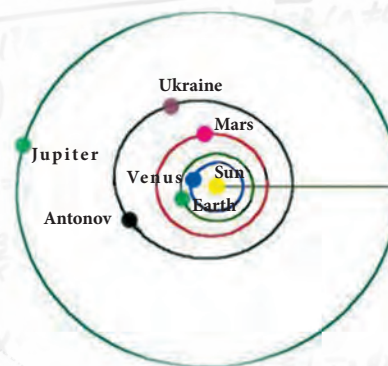
After school, Oleh tried to enter the flight school. He was not admitted due to his health issues. In childhood, he survived typhus and post-war hunger. So, the boy went to study at the Saratov Industrial College. In addition, he was a member of the Aviation Lovers Club.

At the age of 18, Oleh Antonov created his first aircraft, the Holub [Pigeon] Glider. Built with plywood and water pipes, it was marked by a diploma for its uniqueness and exquisite design.

In 1947, a truly reliable aircraft was born, which was set to become a highly acclaimed machine, the famous An-2 ("Corn-Guy"), which is well-known in many countries. Interestingly, the NATO codename of the aircraft is "Colt".

The "Kyiv era" of the gifted designer began in 1952. He moved to Kyiv from Novosibirsk and took lead of the Research Design Bureau. Due to his work, in the late 1950s, passenger aircraft An-10 and An-24 were born.

In 1965, the Design Bureau built an An-22 - Antey, the world's largest turboprop aircraft able to lift up to 50 tonnes of cargo. At the international air show in France, it stunned the public. Experts said that the Ukrainian designer had been several years ahead of his time. The aircraft set 41 world aviation records.



In 2003, a small planet No 14317 (3 km in diameter) was awarded his name. It was discovered by the scientists of the Crimean Astrophysical Observatory in 1978. The star is located in the same orbit with Planet Ukraine.

An-124 "Ruslan", which emerged in 1984, surpassed its predecessor, the record-holding An-22. The aircraft lifted 150 tonnes. In addition, before the An-255 "Mriya" appeared, it was the largest airplane in the world. "Ruslan" is still the leader of the world aviation in long distance cargo transportation. It set over 20 world records.

In 1988, four years after the designer's death, the heavyweight aircraft An-225 "Mriya", which he conceived, made its maiden flight. Its max load is 640 tonnes. This is the world's heaviest aircraft, which has set more than 110 world records in a single flight.

ANTONOV STAR

Oleh Antonov took a direct part in the training of highly skilled professionals for the aviation industry. He was a member of the Academic Board of Kyiv Institute of Civil Aviation Engineers (now - NAU) and gave students lectures on aircraft design. Today, his daughter, Anna Antonova, is a Professor at the Department of Higher Mathematics.

Oleh Antonov was a skilled artist. "Had I not become a designer, I would have become an artist," he admitted. Antonov authored the books "On the Wings of Wood and Canvas", "Ten Times from Scratch", and "For All and or Yourself".

For outstanding achievements in aircraft design, Oleh Antonov was honored to be included in the International Aerospace Hall of Fame at the Air and Space Museum (San Diego, CA, USA).





INNOVATOR DAY

The NAU Aviation Training Hangar hosted the "INNOVATOR DAY" event, aimed at creating an environment for the creative community, and preconditions for new ideas to emerge and creative business models to be developed.

Rector Volodymyr Isaienko stressed the importance of developing innovation in education and science, emphasizing that the university administration is ready to support and create the necessary conditions for the implementation of innovative ideas put forward by students.

"Our university should become a kind of incubator of innovative projects, a platform for their further promotion and implementation," said Kateryna Babikova, Director of Institute of New Technologies and Leadership at NAU.

The following acclaimed innovators shared with students their start-up experience:

Serhiy Skalko – Military pilot, pilot instructor, member of the Ukrainian national aeronautical team, Ukraine record holder, and director of "Kyiv Aeronautics Society" Pilot School;

Yuriy Yakovlev – Chief designer with Aeropact, a Ukrainian manufacturer of ultralight aircraft;

Serhiy Malik – Founder and president of the Kyiv City Automobile Club, the two-time Master of Sports of the USSR and Master of Sports of Ukraine in ring racing;

Hennady Lysiuk – Associate Professor of the Department of Urban Development at Kyiv National Construction and Architecture University, a certified architect, professional in designing transport systems in municipal master plans, planning schemes, detailed plans of the territories.

