



AVIATOR

NEWSPAPER OF NATIONAL AVIATION UNIVERSITY

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2020

Excerpt from the Rector's address to the Staff Conference

Dear colleagues,

The year of 2019 saw great, sometimes unexpected, changes in our country. We are proud that there is something to be proud of today, to analyze it, and to move on toward new challenges.

Thanks to our joint efforts of 23,697 applications submitted in 2019, 2,486 school graduates were admitted for full-time study.

A total of 1,355 foreign students, graduate students and students of the preparatory department have chosen National Aviation University, which testifies to the strengthening of the international reputation of our university as a worthy educational and scientific facility. For three years, there has been an increasing trend of full-time foreign students joining us.

With the support of the government, the university successfully continues to set up quality training for pilots. For the first time, the Ministry of Education and Science of Ukraine has provided NAU with five sports within the state order for "Flight Operation of Aircraft" qualification, and 32 entrants have been enrolled for the first year. The K-10 SWIFT, Cessna 172, and four Tecnam 2002 aircraft, as well as the FNPT II aircraft simulator for the NAU International Pilot Training Center have been purchased.

A cooperation agreement on the joint training of pilots under the standards of the European Aviation Safety Agency (EASA) with the Czech Airlines F AIR has been signed.

This year, eight priority areas of scientific search have not only brought us additional funding, but also yielded significant results. In particular, we received state funding for the development of a stratospheric pseudo-satellite with a renewable energy source and the development of technology to control the current aggregate-phase state of the working fluid in circulating lubrication systems.

According to the priority directions of science and technology development, in academic year 2018-2019, NAU researchers performed 22 research works at the expense of the state budget and 77 contracted projects. Three international scientific agreements were concluded, five grants were awarded: four of them were grant agreements with France (Headed by Vice-rector for international cooperation and education Oleksandr Zaporozhets) and a grant agreement under the Horizon 2020 program with Italy (Headed by Vice-rector for scientific work, Volodymyr Kharchenko).

The number of scientific publications in the international science-metric databases Scopus and Web of Science is increasing. Last year, 188 of them were published in Scopus and 164 in Web of Science. Hirsch Index is 20 and 15, respectively.

The scientists of our university published 101 monographs, 1,047 scientific articles in domestic professional publications, and 1,724 papers at scientific conferences. The University has held 108 conferences and seminars, 42 of which were international.

There are 16 specialized dissertation councils operating at NAU. Last year, 52 dissertations were defended for the following degrees: 15 doctoral and 37 candidates of sciences. In academic year 2018-2019, 13 doctoral students and 218 graduate students (PhD students) studied in 21 scientific specialties. Of these, 160 were contracted by government order and 58 commercially contracted.

An important strategic direction for the development of the university is the formation of social capital, as the basis of success is the professionalism of our academic, research, professional and support staff. Currently, there are 1,534 teaching staff at the University, and their work is provided for by 822 teaching and support staff.

In the academic ranking of higher education institutions of Ukraine of III and IV levels of accreditation "Top 200 Ukraine 2019" NAU has significantly improved its position, ranking 13th. In the last year alone, we have climbed six positions (in 2018 we ranked 19th).

The development of international cooperation is one of the key activities of the University. In the course of 2019, a total of 82 foreign delegations visited our university, and 54 international agreements on cooperation and 39 contracts in the field of international education were concluded as a result of the negotiations. Agreements on cooperation in the field of education and aviation with institutions of Great Britain, Spain, Turkey, Canada, Poland, Portugal, Germany, Slovakia, Romania, Greece, and Norway have been concluded.



The University, in particular, signed agreements with the World Federation of Unmanned Aviation on opening a representative office of the Federation based at NAU; with the People's Government of Xifang, Sichuan Province, on joint aviation education activities. An agreement on cooperation in the field of science and education has been signed with the European Public Law Organization and an official representation of this organization is planned to be opened at the Faculty of International Relations. In the current academic year, a joint educational program "Aviation Logistics" at NAU and the International University of Logistics and Transport in Wroclaw (Poland) starts.

The pride of NAU is the ICAO Institute's training centers, which in 2019 retrained 1,430 aviation professionals, including 295 foreigners from 13 countries.

Concrete steps have been taken in the development of cooperation with leading international organizations, first of all, aviation-related at the global level (ICAO, IATA, ASI, IFATKA, IFALPA) and regional level (ECAC, EASA, EUROCONTROL). Multilateral relations are being developed within the framework of international associations (ALICANTO, PEGASUS, NAU Alumni Association) and bilateral agreements with leading universities across the globe are being developed.

Cooperation is ongoing with leading developers and manufacturers of aerospace engineering (ANTONOV, JSC MOTOR SICH, PLANT 410 CA, Boeing, Airbus, and CFM) in the field of training and retraining of professionals for the aerospace industry, participation in implementation of joint innovation projects.

Despite the rapid nature of the processes of higher education reform, one common goal remains unchanged: the development of our University and the improvement of training of highly qualified professionals. Time goes by, and if we want to be relevant, competitive, and in demand, we need to move forward, too.

I thank you all for your fruitful work, I wish you all creative inspiration and I hope for decent results in the future!



OFFICIALLY

On January 14, 2020, the National Aviation University Staff Conference was held. Some 239 delegates registered for the conference.

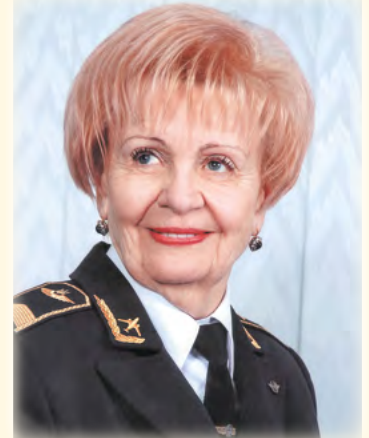
Rector of the University, Volodymyr Isaienko, First Vice-Rector Valery Kozlovsky, Vice-Rector for the Educational Work Artur Gudmanian, Vice-Rector for International Cooperation and Education Oleksandr Zaporozhets, and Chairman of the Professional Union Committee Volodymyr Hrebennikov were elected to the presidium.

The participants of the Conference heard the report of Rector Volodymyr Isaienko as he analyzed the volume of work carried out by University staff in 2019. The main positive results are emphasized of the work of the admission commission, organization of the educational process,

Following the report, the Rector answered the written questions of the delegates. The report was discussed by Dean of the Faculty of Ecological Safety, Engineering and Technology Serhiy Boychenko, Head of the Hydro-Gas Systems Department of the Aerospace Faculty Valery Badakh, Dean of the Faculty of Transport, Management and Logistics Oksana Iliencko, Dean of the Faculty of Electrical Engineering business administration Svitlana Petrovska, and Dean of the Faculty of Architecture, Construction and Design Oktiabrina Chemakina. The conference delegates approved the rector's report and found his work satisfactory.

The leaders of the primary professional union organizations in their speeches highlighted the activities of the professional union units in 2019. Based on the reports, the Conference decided to declare the Collective Agreement for 2019 as accomplished.

UNIVERSITY STAFF CONFERENCE



On February 27, 2020, Galina Suslova, Director of NAU ICAO Institute, Professor of NAU's Airworthiness Department, Honored Education Worker of Ukraine, celebrates her 90th anniversary.

Galina Suslova graduated from the Gorky State University's English language department, as well as a command faculty at the Leningrad Academy of Civil Aviation (distance learning). From 1956 to 1969, she taught at the Kyiv Institute of Civil Aviation Fleet. From 1969 to 1983, she was Assistant Professor, Professor of Foreign Languages, and at the same time Dean of the preparatory faculty for foreign nationals of the Kyiv Institute of Civil Aviation Engineers. Since 2005, she has been at the helm of the NAU ICAO Institute and an expert with International Civil Aviation Organization. She has authored over 180 research works.

Dear Galina Andriyivna,

Thanks to your diligent efforts, Ukraine has earned a worthy spot among International Civil Aviation Organization member states. Your phenomenal stamina and professional skills are a great example to follow for both students and faculty at our University. You are highly respected and praised in Ukraine and beyond.

We wish you good health, longevity, inexhaustible energy, creativity, and new achievements! Let your vision come true of the Ukrainian aviation industry development, which will win our country a worthy place among leading aviation powers.

and achievements of educational structural units. The development and transfer of university research were discussed, in particular, the priority areas of scientific research. Of great interest was the analysis of the development of international relations and strategic partnership of NAU. In particular, Volodymyr Isaienko noted: "Creating an atmosphere that will facilitate the discovery and realization of the innovative potential of the personnel, increase the competitiveness in the technology transfer market, commercialize the results of scientific and innovation activities and the development of international cooperation are strategic goals of university development."

The conference delegates unanimously supported the NAU Collective Agreement for 2020-2022. New revisions to the NAU Statute and the University's Anti-Corruption Program have also been approved. They also approved the new wording of the Regulation "On the Conference of the NAU Staff". Separate issues of transfer of property of Kremenchuh Flight College to Kharkiv National University of Internal Affairs were agreed. Changes in the composition of the Labor Disputes Commission were supported.

The conference of the National Aviation University Staff worked constructively and no reservations were heard about its work.





The NAU delegation led by Vice-Rector for Innovative Learning and Informatization, Yuriy Tesla, took part in the Chinese-Ukrainian Educational and Cultural Exchange Forum. Among over 300 participants in the forum were educational leaders, representatives of the Government of Zhejiang Province and delegations of 12 higher educational facilities of Ukraine, in particular, Ihor Sikorsky National Polytechnic Institute of Kyiv, Taras Shevchenko Kyiv National University, Lviv Polytechnic National University, and others. During the forum, a partner of NAU, CEO of Xipei Education, Mao Jifei, was awarded a license by the Association of International Education of Zhejiang Province. He noted the importance of cooperation with the Ukrainian higher educational facilities and gave examples of successful joint projects.

A meeting was held with representatives of Taizhou University was held in Hangzhou at the China-Ukrainian Institute of Aerospace Technologies (CUAT): Rector Chen Guantin, Director of the Institute of Aeronautical Engineering Zhang Yongju, and Director of the International

Cooperation and Exchange Department Wang Xinqi. The meeting was held in accordance with the preliminary agreements reached during the visit of Taizhou University delegates to NAU in December 2019.

The parties discussed issues of implementation of joint projects, in particular, student and staff exchange, the launch of 2+2 educational programs, and involvement of NAU staff in China's aerospace educational programs.

Project initiation agreements have also been reached on setting up a joint college of unmanned aerial vehicles to be hosted by the Chinese partner, whose graduates will be able to continue their studies at National Aviation University and Taizhou University; setting up a Confucius Institute to be hosted by NAU, which will focus on the development of the humanitarian field in the aviation industry. The Parties have agreed an action plan on the areas of cooperation, while financing of the projects is undertaken by the Chinese side.

DELEGATION TO PRC

VISIT OF NAU



The delegation also participated in the opening of the new headquarters and training center of Xipei Education, a partner of our university.

Xipei Education CEO Mao Jifei said their company is one of the largest in the PRC, specializing in pre-university admission training and transfer of applicants to both the domestic and international educational services markets. He noted that cooperation with NAU is extremely important, as China's aviation industry is growing rapidly.

Representatives of the European Microwave Association (EuMA): President Frank van den Bogaart (The Hague, The Netherlands), Member of the Board of Directors Wolfgang Heinrich (Berlin, Germany), and Association Member Alex Yarovoy (Delft, the Netherlands) were welcomed at NAU for their first visit.

Frank van den Bogart stressed that the primary purpose of their first visit to Ukraine was to strengthen international contacts and to engage scientific and pedagogical staff to participating in the Association's international conferences and seminars.



PROSPECTS FOR COOPERATION WITH THE EUROPEAN MICROWAVE ASSOCIATION

Rector Volodymyr Isaenko, in particular, noted that there are many members of the European Microwave Association among NAU staff. Head of the Electronics Department, Feliks Yanovsky, and Professor with the Aeronavigation Systems Department of the Faculty of Aeronautics, Electronics and Telecommunications Yulia Averyanova were the official representatives of Ukraine at the EuMA General Assembly.

The Association awards more and more grants each year to young and experienced scholars alike to participate in international conferences, including the Central European Microwave Conference with the Exhibition (EuMCE) and the European Microwave Week, which includes the European Microwave Conference, the Radar Conference (EuRAD) and the European Conference on Microwave Integrated Circuits (EuMIC).

TWO STEPS:

INTERNATIONALIZATION IN PRACTICE - SWEDEN, UKRAINE, BELARUS

The NAU delegation headed by Vice-Rector for International Cooperation and Education, Professor Oleksandr Zaporozhets, took part in the round table of the international project of the Baltic University Program "Two Steps: Internationalization in Practice - Sweden, Ukraine, Belarus – Step 2".

The project brings together representatives of 12 Swedish universities, eight universities of Belarus, and 24 universities of Ukraine, including NAU. The event was held at the world-famous Uppsala University (Sweden).

As part of the roundtable, university representatives held talks on the development of international cooperation with scientists from Uppsala University and other

universities in Sweden, Belarus, and Ukraine. The Delegation formed and submitted to the Swedish colleagues for consideration two international

projects "Best Practices and Best Practices in Sustainable Development in Aviation" and "Mobility for Civil Protection".



Ukraine's official delegation has attended a solemn event at the International Civil Aviation Organization (ICAO) Headquarters in Montreal (Canada).

Ukraine's delegation along with delegates from other ICAO member states attended the ceremony of naming the ICAO Aviation Museum after Olumuyiwa Benard Aliu, who is a NAU alumnus and Honorary Doctor. ICAO Secretary General Fan Liu was also present, as well as newly elected ICAO Council President Salvatore Sciacchitano, and ICAO Council President (2014-2019) Olumuyiwa Benard Aliu.

Ambassador Extraordinary and Plenipotentiary of Ukraine to Canada Andriy Shevchenko, NAU Rector Volodymyr Isaienko, and President of Antonov Airlines, NAU graduate Mykhailo Kharchenko solemnly handed to the ICAO Aviation Museum a model of An-225 "Mriya", the world's largest and most powerful cargo aircraft. The model was installed in the Museum due to the active assistance of NAU ICAO Institute Director Galina Suslova.



NAU PARTICIPATION IN INTERNATIONAL CIVIL AVIATION ORGANIZATION EVENT



NATIONAL GUARDSMEN TRAINING IN ICAO INSTITUTE



NAU ICAO Institute held for the personnel of the National Guard of Ukraine a regular methodological training session on aviation security in transportation of a special category of passengers.

During theory classes, the issues of aviation security and procedures during transportation of a special category of passengers were considered. At the NAU hangar,

practical skills were worked out in the event of an emergency on board an aircraft, as well as incidents in the cabin involving a special category of passengers. Crisis cases and interaction with the staff of the aviation security service were worked out by the National Guard personnel at the Antonov State Museum that is part of National Aviation University.

The National Guard Command thanked NAU ICAO Institute for training their military personnel.

Heidi Ames, Chief of Federal Aviation Administration (FAA) for the CIS and Southeast Europe, has made a working visit to NAU ICAO Institute. She is responsible for the implementation of the U.S. Federal Aviation Administration's policies and environmental issues. Head of the Department of International Cooperation of the State Aviation Service of Ukraine of Ukraine Danylo Davydov also attended the meeting.

An important discussion was held of possible cooperation between FAA

and Ukraine on the training of National Flight and Airworthiness Inspectors. In particular, the parties agreed that NAU's ICAO Institute would set up the relevant courses, while FAA would assist in coaching future trainers in the United States.

Galina Suslova emphasized readiness of NAU's ICAO Institute, together with the State Aviation Service of Ukraine, to organize the process of training of national inspectors on airworthiness, flight safety, and personnel training.

COOPERATION WITH U.S. FEDERAL AVIATION ADMINISTRATION

LADY AVIATION

a few strokes to the portrait

Galina Suslova is a Director of ICAO Training Institute, Professor at NAU's Airworthiness Department, expert with the International Civil Aviation Organization, and ICAO standards implementation coordinator in Ukraine.

She is Ukraine's Honorary Education Officer and Bulgaria's Honorary Transport Officer. She has been decorated with orders, medals, and honors in Ukraine, Bulgaria, Hungary, Lithuania, Lithuania, and Russia.

She is an Honorary Professor with a range of foreign universities, including Vilnius's Gediminas Technical University (Lithuania) and Hankuk Aviation University (South Korea). She is an honorary member of the United States Air and Space Museum (Dayton) and a member of the International Aviation Women's Association. She has authored than 180 research works.



From 1969 to 1983, Suslova was Assistant Professor and Professor at the Department of Foreign Languages, and at the same time Dean of the Faculty of Foreign Citizens' Preparation at the Kyiv Institute of Civil Aviation Engineers. Her scientific research is related to the development of an English-speaking version of civil aviation system terminology, the definition of the role of aviation English in ensuring flight safety, and the implementation of ICAO recommendations.

Galina Suslova was born on February 27, 1930, into the family of a military engineer and philologist. During the war, the family was evacuated from Vilnius to Gorky (now Nizhny Novgorod, Russian Federation).

In 1953, Galina Suslova graduated from the Gorky State University English Department and returned to Vilnius, where she began working as a teacher at the Department of English Philology at Vilnius University.

"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."

She met her future husband Mykola at the Vilnius Airport. The two liked each other right away. When he was transferred to the Kyiv Higher Military Aviation Engineering College, she followed him."

From 1956 to 1969, Galina Suslova worked as a teacher at the Kyiv Institute of Civil Aviation Fleet. In 1965, she graduated from the Command Faculty of the Leningrad Civil Aviation Academy (distance education). She has extensive experience in training foreign flight crews.

"I worked as a navigator – 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."

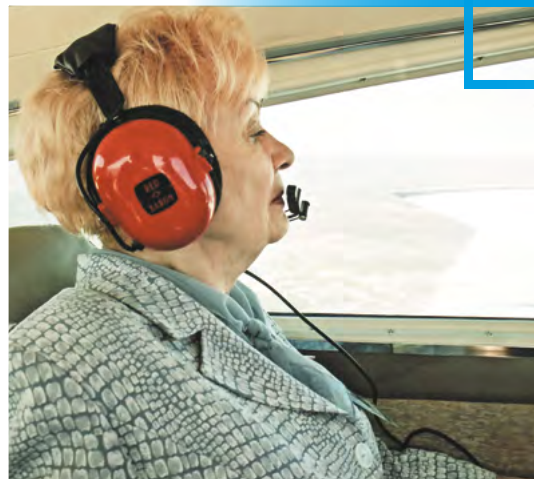


When the Soviet leadership presented an airplane as a gift, say, to Indira Gandhi or Saddam Hussein, it was necessary to teach the crew to operate it. For two months, a pilot worked with our instructor who did not speak English. I would be invited to interpret. After ground preparation, flight training began. Communication went through me because the flight controller didn't speak a foreign language, either."

Galina Suslova initiated the founding of training centers in Ukraine under the aegis of the International Civil Aviation Organization (ICAO). In 1996, the European Regional Aviation Safety Training Center was opened at NAU. The positive experience gained by the center became the basis for the launch in 2002 of the NAU ICAO European Regional Training Center to train national aircraft safety and airworthiness inspectors. In 2005, the ICAO Aviation English Training and Methodology Center was established, where Galina Suslova was appointed scientific advisor and designated as national coordinator for the implementation of aviation English standards.

In 2003, National Aviation University set up NAU ICAO Training Institute. Galina Suslova has been its director since the day it was founded.

In 2019, Galina Suslova was elected Chairman of the Board of Directors of the Aviation Safety Training Centers of the European/North Atlantic Region.



National Aviation University hosted the inauguration of the NAU Training Center set up within the framework of the "International Pilot Training Center of National Aviation University" national investment project.

Opening the Center, Rector Volodymyr Isaenko said that "thanks to the creation of the International Pilot Training Center, our university will become competitive and reaffirm its status as a high-tech innovative aviation education facility recognized in the European and global scientific and educational space."

Serhiy Ishchenko, Head of Aerodynamics and Flight Safety Dept, presented ALX, the French aviation simulator. He noted that the simulator made by the French company ALSIM is the most modern model of 2018, and that it will train student pilots for Cessna, Tecnam, and Boeing class aircraft.

As part of the national investment project, the university also purchased five aircraft: one-engine Cessna 172 and four light-engine Tecnam training aircraft. The planes have been cleared at customs, unloaded, and placed in the hangar at the Antonov-2 air field (Hostomel).



The Cessna 172 aircraft has a fuel-saving diesel engine, which consequently reduces the cost per hour of flight. Also, diesel engine life is greater than that operating on gasoline, which increases potential flight hours.



From dream



The first one to try out the simulator was Hero of Ukraine, First Class Golden Star Cavalier Oleksandr Halunenko, a test pilot who one took the world's largest An-225 "Mriya" cargo aircraft for her maiden flight.



Two P2002-JF aircraft, made in 2019, are certified by EASA, according to CS-VLA, belonging to the VLA (Very Light Aircraft European Classification) category. The dashboard meets international standards and is equipped with the Garmin 660 flight and navigation complex.

The aircraft boast of outstanding quality and flight performance along with high cost-effectiveness and low-cost maintenance, making them an excellent choice for initial flight training.



to implementation

The P2002-JF is powered by an engine by Rotax Aircraft Engines (Austria), which is very important in terms of fuel saving. After all, P2002-JF can use conventional AI-95 gasoline with an average consumption of 17 liters per hour. So at a cruising speed of about 200 kmh, the plane is able to travel over a 1,000 km in six hours, which is a great indicator for this type of aircraft. All Rotax engine systems are duplicated, significantly reducing failure risks.

Soon, certified experts will attach stabilizers and wings to the aircraft. In parallel lines, they will begin the procedure for airworthiness certification, as well as get registration with the State Aviation Service of Ukraine.





ФОРМУЛА РОЗПОДІЛУ ФІНАНСУВАННЯ ЗАКЛАДІВ ВИЩОЇ ОСВІТИ



Об'єднуватись



Зберігати профіль університету, підтримувати технічні спеціальності



Розвивати вищу освіту в регіонах



NAU IN TOP 10 UNIVERSITIES IN TERMS OF FUNDING FOR 2020

National Aviation University will in 2020 receive UAH 31.1 million more than it has in 2019 thanks to a new formula for the funds allocation by the Ministry of Education and Science of Ukraine. The amount of funding that our university will receive in 2020 is over UAH 394 million, which is 108.6% against 2019.

The Ministry of Education and Science calculated funding for 2020, guided by specific indicators, including: university scale, it's contingent, regional coefficient, positions in international rankings, and the amount of research funding the university receives from businesses or international grants.



РОЗПОДІЛ ФІНАНСУВАННЯ У 2020 РОЦІ



136 закладів вищої освіти та **12** їхніх філій, що мають окремі кошториси

у підпорядкуванні МОН

94 заклади

отримують 100-120% від бюджету 2019 року

54 заклади

отримують 95-99% від бюджету 2019 року

Заклади, фінансування яких зросте* на понад 15 млн грн:

Заклад	млн грн	Заклад	млн грн
Київський політехнічний інститут ім. І. Сікорського	86,4	Національний авіаційний університет	31,1
Львівська політехніка	69,0	Дніпровська політехніка	24,3
Львівський національний університет ім. І. Франка	58,3	Чернівецький національний університет ім. Ю. Федьковича	22,7
Національний університет біоресурсів і природокористування	41,9	Ужгородський національний університет	21,9
Харківський політехнічний інститут	40,3	Сумський національний аграрний університет	19,4
Харківський національний університет ім. В. Н. Каразіна	38,3	Харківський національний університет радіоелектроніки	19,0
Сумський державний університет	33,6	Луцький національний технічний університет	17,7
Запорізька політехніка	31,6	Національний університет водного господарства та природокористування	16,9
		Київський національний університет будівництва і архітектури	15,0

* Приріст фінансування у 2020 порівняно з 2019

UKRAINE-EAST: DIALOGUE OF CIVILIZATION AND INTERNATIONAL RELATIONS

The Faculty of International Relations has held a roundtable titled "Ukraine - East: Dialogue of Civilization and International Relations", during which the newly established Department of Oriental Studies of the Faculty of Foreign Relations was presented.

Rector Volodymyr Isaienko said that "expanding international relations is one of the main tasks of the University, and the opening of the Department of Oriental Studies is the beginning of a new direction of cooperation with our partners. Students will learn Arabic, Turkish, and Japanese, and later – Chinese. It will make them more competitive in the labor market not only of Ukraine, but of the whole world."

Attendees heard addressed by Ambassador Extraordinary and Plenipotentiary, Ambassador for Special Assignments of the Ministry of Foreign

Affairs of Ukraine Viktor Nikityuk; President of the Ukrainian-Arab Business Council Imad Abu Alrub; Ambassador Extraordinary and Plenipotentiary, Leading Researcher at the Krynsky Institute of Oriental Studies with the National Academy of Sciences of Ukraine Yuriy Kochubey; Head of the Yunus Emre Institute at the Embassy of the Republic of Turkey in Ukraine Ender Korkmaz; Ambassador Extraordinary

and Plenipotentiary, Head of the Department of Public Administration and Project Management of the Educational-Scientific Institute of Management and Psychology of the University of Education Management of the National Academy of Pedagogical Sciences of Ukraine, Yevhen Kartashov; and Chairman of the Board of the Center of Ukrainian Diplomacy, Vitaliy Omelchenko.



MEETING WITH PARTNERS IN INTERNATIONAL EDUCATIONAL SERVICES

At the meeting, members of the Ukrainian Association of Educational Service Exporters spoke about the peculiarities that arise in the process of recruiting foreign students. In particular, director of STUDMIR LLC Shadi Khatib, chief of MEROS STAR LLC Atia Valid Kamal Abdel Salam, and head of Antal LLC Antoinette Dian emphasized difficulties in obtaining student visas that are becoming a major obstacle for foreigners trying to enter Ukrainian universities. This could be avoided by using a NAU study invitation. Issa Sadio Diallo, President of the African Council in Ukraine, invited the meeting participants for a traditional holiday, Africa Day, to be hosted by National Aviation University on May 25, 2020.

The annual meeting of the university leadership with partners in the field of international educational services was held in the Academic Council.

Vice-rector for international cooperation and education Oleksandr Zaporozhets emphasized priority of cooperation with partners, due to which the number of foreign students at our

University has increased significantly. Director of the Institute for International Cooperation and Education Vyacheslav Timokhin spoke about the creation of the NGO "Ukrainian Association of Educational Exporters", which aims to unite the efforts of companies that help foreign students enter NAU and improve the quality of educational services.

GRADUATION of NAU CADETS



The State Antonov Museum of Aviation hosted the graduation ceremony for the cadets of the NAU Military Training Department. Fifteen cadets of the 6th year of the NAU Military Training Department received a military rank Lieutenant and a Master's diploma.

Rector Volodymyr Isaenko and Head of the Department, Colonel Oleksandr Vodchyts, congratulated the boys and girls on receiving the officer's rank and wished them professional growth and achievement of the highest results in strengthening the defense capability of our country.



A young sociologist with the Faculty of Linguistics and Social Communications, Kateryna Koroliuk, won 1st prize at the VIII International Competition for Young Scientists "Archetype and Public Management: Tradition, Its Subjects and Sources in Postmodern Society". The final stage, hosted by the Library of Alexandria (Alexandria, Egypt), was moderated by Doctor of Sociology, Professor Eduard Afonin and founder of postmodern sociology, Professor at Sorbonne University Michel Maffesoli.



VICTORY AT INTERNATIONAL YOUNG SCIENTISTS COMPETITION

Kateryna Korolyuk presented her project "Conceptual schemes of modern state development: convergence of tradition and innovation (archetypal approach)" (scientific supervisor Associate Professor of the Department of Sociology and Political Science Inna Semenets-Orlova). International experts have noted the importance of independent sociological dimensions, based on which Kateryna put forward a unique formula of social cohesion: "We".



LECTURE BY HEAD OF DOCTORS WITHOUT BORDERS MISSION IN UKRAINE

"Since the start of hostilities in Luhansk and Donetsk regions, we have focused our attention on helping the conflict victims, people living along the demarcation line, as well as displaced persons. At present, we're working only on the territory controlled by the Ukrainian authorities."

The lecturer noted that it was his second ever meeting with students to talk about humanitarian work. *"This is not part of my job, but a personal initiative. It is extremely important for young international law professionals to have a realistic understanding of humanitarian aid."*

Head of the Doctors Without Borders (MSF) Mission in Ukraine, Grigor Simonyan has delivered a lecture titled "Humanitarian Activity XXI" to the students of the Faculty of International Relations.

Grigor Simonyan has told students about the activity of the independent international medical humanitarian organization, outlined features and major risks the organization faces in its humanitarian work. The Head of MSF Mission in Ukraine also spoke about the organization's activities in the east of the country.



WINNING ALL-UKRAINIAN BAR VIP TOURNAMENT

In brain-ring, the first place was won by NAU Law Faculty team. Runners-up were the Yurydychna Hromada team of Yaroslav the Wise National Law University. The third place went to the team of the Ivan Franko National University of Lviv's Law Faculty.



Our University's Law Faculty team won the first place at the XII All-Ukrainian Bar VIP-Tournament among law students of the best higher education facilities of Ukraine. The event was organized and conducted by NAU's Law Faculty jointly with the Coordinating Council of Young Lawyers of Ukraine under the Ministry of Justice of Ukraine. Twenty teams from 10 regions of Ukraine participated in the tournament.



NAU CHAMPIONSHIP IN ARTISTIC SPORTS

The NAU Championship in Artistic Sports was held at the University Sports Center. The program included competitions in cheerleading, aerobics, step aerobics and funk aerobics. Some 64 students of years 1-5 took part.

In the cheerleading competition, the gold went to the FTML team: Hanna Vlasenko, Valeriya Ponomarenko, Anastasia Rybakova, Ivanna Stashchuk, Maryana Sivolap, and Yelizaveta Khlevytska.

In airdance, the first place was won by a joint team: Yevhenia Tarasenko (FCSCSE), Maria Rozhenko (FEBA), and Ilya Velichkovsky (FCSCSE).

In step aerobics, the first place went to a joint team: Maria Danylyuk (DMT), Valeria Paliy (FLSC), Vladyslava Krutas (LF), and Natalia Palamarchuk (FEBA).

In Functional Aerobics, gold went to a joint team: Yelizaveta Fedchenko (FCSCSE), Diana Bahynska (FLSC), Khrystyna Nadiryan (FTML), Tetiana Voloshyna (FEBA), and Iryna Rossomakha (FTML).



GOLD AT THE ALL-UKRAINIAN SPORTS AEROBICS COMPETITION

Female students of the NAU team won gold in aerofunk and bronze in aerostep at the All-Ukrainian sports aerobics competition. Athletes from Kharkiv, Zaporizhia, Ternopil, Zhytomyr, Cherkasy, Vyshgorod, Boyarka and Kyiv took part in the contest.

Congratulations to Valeriya Paliy (FLSC), Khrystyna Nadiryan (FTML), Natalia Palamarchuk (FEBA), Maria Danyiuk (DMT ASF), Vladyslava Krutas (LF), Tetiana Voloshyn (FEBA), Diana Bahynska (FLSC), and Yelizaveta Fedchenko (FCSCSE) and coaches with the Department of Physical Education and Sports Training of the Faculty of Linguistics and Social Communications Yana Polino and Svitlana Orheyeval!

Throughout almost his entire career, he remained an invisible man: only his subordinates and management knew who he was, while his name covered by a veil of secrecy until the day he died. In all reports, he was simply called Designer General, in capital letters. It is his efforts that led to a first ever human space flight and first spacewalk, as well as the launch of the first artificial satellite and the first intercontinental missile.

The future aircraft designer Sergey Korolev was born in Zhytomyr on January 12, 1907, into a family of teachers. From the age of ten he was raised by his stepfather, who was a mechanical engineer. The family moved to Odesa, where stepfather wrote him up for a seaport model club, where the boy got obsessed with a dream to one day build a glider.

Having passed all exams in fast-track mode in 1922, the young man entered the First Odesa Construction College. He got his first job at sixteen: he worked as a carpenter, covering roofs with tiles and later mastering a machine tool at production. At the same time, Sergei became a member of the newly organized Aviation and Aeronautical Society of Ukraine and Crimea (TAPUK), graduating first from propaganda courses, and later from the courses on theory and practice of aircraft design. "I will remain in construction ... but only that of airplanes," the young Korolev used to say.

In July 1924, the Presidium of the TAPUK's Odesa Branch approved the glider project designed by Korolev, and in August the project of a non-powered K-5 aircraft was recognized as a worthy one and sent to the Central Sports Section in Kharkiv, the then capital of Ukraine.

THROUGH HARDSHIPS

The same year, Sergey Korolev joined the Kyiv Polytechnic Institute, Faculty of Mechanics, where aviation engineers were being trained. At the end of 1926, on the advice of the rector, he was transferred to the Aeromechanical Faculty of Moscow's Bauman Technical University to study aircraft design.

SK-4, a light-engine double-seat aircraft, was his diploma project, which, immediately following defense routine, went into mass production. Andrey Tupolev was Korolev's scientific supervisor. Like any inventor, during aircraft testing, the student always took a passenger seat.

Sergei Korolev combined his studies at the Moscow university with work at aviation factories where he was gradually promoted from a technician to engineer designer. In 1928-1930, he graduated from the School of Glider Pilots and Long Distance Master Pilots, receiving a piloting license.

In October 1929, he took for a maiden flight his new Koktebel glider, designed jointly with Sergei Ilyushin. In October 1930, as Korolev was preparing to fly his new SK-3 "Red Star" glider, he got ill on typhus. The disease caused complications and in January 1931, Korolev was recognized as disabled, haunted by severe headache.

Despite his illness, Sergei Korolev undertook to study the research work by Konstantin Tsiolkovsky, titled "Jet Airplane". It was his ideas that the young Korolev had once adopted in his student years. He later got at the helm of the Scientific and Technical Council of the Moscow Jet Propulsion Study Group.

In 1933, Korolev became Deputy Director of the Reactive Research Institute, later heading the Cruise Missile Division. Later, in 1937, he substantiated the concept of a missile-carrying interceptor jet that was tasked with attacking an enemy aircraft, gaining the required altitude within minutes.



R-1



R-2



R-5



R-11



ECM



SK-4



R-7



R-9



GR-1



RT-2



TO STARS

After an accident during tests that the designer conducted personally, on June 27, 1938, he was arrested on someone's tipoff. He was sentenced to 10 years in a closed-door court hearing and sent to a Kolyma camp. In September 1940, at Tupolev's request (although he was also arrested in 1938), Sergei Korolev was transferred from the camp to the Moscow's NKVD Central Design Bureau No. 29, where he immediately took up developing a new bomber. In 1942, the Tu-2 aircraft was put into production, becoming the best frontline bomber.

Sergey Korolev was transferred to the Kazan prison, where he worked in a design bureau over an aeronautical missile system until his release in 1944. Sergei was not only a talented designer, but also an organizer who was able to coordinate the work of all departments of the bureau. His success story in missile building began with the creation of a missile with a 300 km range. In 1948, an R-2 missile with a range of 600 kilometers was created, and subsequently, an RDD R-5M with a range of 1,200 kilometers and a nuclear warhead emerged.

From 1956, he headed the Soviet missile program, becoming the leader and chief designer of the country's largest missile center, OKB-1. One of his most important design achievements was the world's first intercontinental ballistic missile R-7, tested on August 27, 1957.

The R-7 missile became the basis for the development of a whole family of launch vehicles designed for the peaceful exploration of space. Thanks to this project, for the first time in history, in October 1957, an artificial satellite was launched, "Sputnik-1", and a month later - "Sputnik-2", with the first animal to be sent to the orbit. The first space flight with a human pilot took place on April 12, 1961, on the Vostok ship with Yuri Gagarin on board. Experts of the Council of Chief Designers, created by Korolev, were involved in the implementation of these projects. In his lifetime, seven more manned flights were carried out, satellites, space science stations, and systems were successfully launched.

He never received the Nobel Prize because of the Soviet Union's refusal to disclose the designer's real name, as all research works were signed as "K. Sergeev." The authorship unearthed only after the death of the brilliant designer on January 14, 1966.

Today, space exploration is gaining new unprecedented pace: the exploration of the moon and Mars, as well as space tourism. However, all this wouldn't have been impossible if an ordinary boy from a Ukrainian city hadn't decided to become an engineer and constructor.





Open days

February 29, 2020

Hall of the NAU Admissions Committee
11:00 – 13:00

April 14, 2020

NAU Culture and Arts Center
13:00 – 16:00

June 12, 2020

Assembly Hall at NAU Building 1
10:00 – 14:00



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Dear entrants of 2020!

We invite you to participate in All-Ukrainian Olympiads at National Aviation University in the following subjects: "Mathematics", "Physics", "Chemistry", "English Language", "Ukrainian Language and Literature", "Geography", "History of Ukraine", and "Biology". Winners of NAU's All-Ukrainian Olympiads will get an additional **20 points** when applying for specialties enjoying government support.

Round 1 (distance), qualifying

(remote:
<http://moodle.idp.nau.edu.ua>)
08.02 – 01.03.2020

Round 1, additional

(remote:
<http://moodle.idp.nau.edu.ua>)
07.03 – 15.03.2020

Round 2, main:
04.04 – 12.04.2020

Registration of participants in the Olympiad lasts until March 3, 2020.

Online registration is available on the site of the Institute of Innovative Educational Technologies:

<http://iiot.nau.edu.ua>

Phones:

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All-Ukrainian Olympiads

