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Rector's address at staff conference

Dear colleagues,

Our university is among Ukraine's best higher educational facilities in terms of educational, scientific, and international operations, ranking 12th in the national consolidated rating and 5th in Kyiv. We are also 22nd place in the Webometrics ranking among 327 Ukrainian universities and 19th in TOP-200 of Ukraine's higher educational institutions.

Strong positions in various rankings, recognition, and awards are all due to the fruitful work of our university staff. Over the past three years, we've been seeing stable dynamics of the potential of scholars and personnel holding a scientific degree and academic ranks.

Increasing the share of PhDs, professors, and candidates of sciences, as well as associate professors, is one of the most important tasks we've successfully fulfilled in the reporting year. In 2018, 50 scientific theses were defended, including 14 PhD theses and 36 – of candidates of sciences.

Promoting highly qualified personnel training, supporting young talents, and expanding the range of scientific professions in postgraduate and doctoral studies remain priority tasks of our university's personnel policy. Today, 16 doctoral candidates and 223 postgraduate students are part of our graduate school.

As of Oct 1, 2018, a total of 23,378 people study at our faculties, educational-scientific institutes, and territorial units.

Each year, we are attracting more and more foreign students: in 2016, we signed up 734 foreigners; in 2017, it was 677 people, and another 746 students – in 2018. Most of our foreign students joined the Aerospace Institute. Today, for 22% of our students, the language of command is English.

Next year we are to confirm the status of the National Higher Education Institution. Therefore, the target is to increase the level and expand the range of applied research, and promote competitiveness in the technology transfer market, which will boost commercialization of our research and innovation results, in particular, in the aerospace industry.

Pilot training is another step toward restoring our leading positions as a center for the aerospace industry. In 2018, nine freshmen successfully completed the program, having received certificates of private pilots, and joined a

commercial pilot training program. Eight sophomores are doing practice flights to meet the program requirements in terms of flying hours.

Another win this year is a solid UAH 90 million laid in the state budget for the development of the NAU-based International Pilot Training Center.

The university boasts a significant scientific, technical, and innovative potential to ensure it becomes one of the world leaders in the area. NAU ranked 28th in the Scopus ranking, among Ukrainian higher education facilities, while our Hirsch Index rose from 17 to 20 against 2017. Nine fundamental and 11 research projects are underway at the university, paid for by the state budget. Also, we have signed off six international agreements and received five grants under the relevant programs.

An important step toward the revival of our university's glory as a powerful player in the world of education is setting up the NAU Graduate Association where university graduates of various generations are partaking. Our alumni are now recognized specialists in the aviation industry, and, what's pleasing, both in Ukraine and beyond. The Association's major tasks include strengthening corporate culture among students and graduates of all generations; promoting professional growth of university students, setting up conditions for their self-realization; and supporting and strengthening the university's public image at both national and international levels.

The university's international cooperation has been actively developing. The Agreement was signed on Management Services between NAU and the International Civil Aviation Organization (ICAO); as well as the Memorandum on the coordination and organization of Ukrainian aviation specialists' training at the ICAO Office; the Memorandum with Nigeria's National Space Research and Development Agency (NASRDA); memorandums with

Professional University of Liming and Inner Mongolia Technology University (PRC); Memorandum on cooperation between NAU and Shota Rustaveli Batumi State University; and the Agreement on cooperation with Batumi-based Naval Training University and National Institute of Economic Research.

During the period under review, 993 specialists from Ukraine and 295 aviation specialists from Azerbaijan, Georgia, Armenia, Kazakhstan, Latvia, Moldova, Kyrgyzstan, Montenegro, Canada, France, Belarus, China, and India were either trained or underwent recurrent training at the ICAO Institute's training centers.

In 2018, the administration and staff in their socio-economic relations as well as issues related to the protection of rights and interests of those working at the university were guided by the valid Collective Contract, approved at the staff conference of Jan 22, 2018.

Overhaul and maintenance works at the university campus, including classes and dorms totaling UAH 13.6 million were financed from NAU's general and special budgets. Also, we procured equipment for long-term use and replenished our library fund.

Procurements, as well maintenance works and overhaul at the campus were in line with the 2018 budget and financed within target limits. That is, the university in 2018 fulfilled all basic provisions of the Collective Contract.

Next year's major objective is to set up an effective system of professional development, ensure academic mobility of our teaching staff and students, further equip the university, promote financial incentives through ratings, attract more grants, increase of the number of applicants in the aviation area.

I am positive that, through joint efforts and diligent work of all university staff, we will confirm NAU's high status at both national and international levels, also boosting our competitiveness.

I appreciate your fruitful work and commend your results!



On Dec, 18, 2018, the National Aviation University held a Staff Conference where 242 delegates registered of 300 elected. The board elected to chair the event was composed of five members, including Rector of the University, Volodymyr Isaienko, Vice-Rector for academic work Artur Gudmanian, Vice-Rector for international cooperation and education Oleksandr Zaporozhets, Vice-Rector for the economy and maintenance work Roza Vinetska, and Chairman of the Trade Union Committee Volodymyr Hrebennikov.

NAU STAFF CONFERENCE

Dr. Volodymyr Isaienko in his report elaborated on the scope of the university staff's innovation projects throughout 2018. He emphasized positive trends in student admission, academic process organization, and success stories of individual structural units. Also, he focused on the achievements of academic staff, including research, as well as publications in scientific periodicals. The report touched upon the university's international efforts and prospects in the area, including cooperation with the International Civil Aviation Organization (ICAO). Besides, the report highlighted the issues related to fulfilling the Collective Contract.

Volodymyr Isaienko's report was followed by a Q&A session. First Vice-Rector Valery Kozlovsky, Chairman of a NAU-based primary organization of the All-Ukrainian professional union of workers of land, water, and aviation transport, Valery Chepizhenko, head of Aircraft Aerodynamics and Flight Safety Department at the Aerospace Institute, Serhiy Ishchenko, Institute of Humanities director Serhiy Yahodzynskyi, Professor Mykola Husiy of the Institute of Computer Technologies, Law Institute director Iryna Sopilko, Institute of Navigation, and Electronics and Telecommunication deputy director Roman Odarchenko took part in discussions. The delegates approved the Rector's report and assessed his work as satisfactory.

In their reports, head of NAU's primary trade union organization Volodymyr Hrebennikov and chief of primary organization of the Students' Trade Union, Maria Roschuk, spoke about the operations in 2018 of the university's professional unions.

Based on the reports approved and conclusions made by structural units, the delegates assessed the Collective Contract as duly executed in 2018.

Head of the legal department Lesia Prudyvus provided well-founded explanations regarding the delay in the signing of a new Collective Contract for 2019-2020, having emphasized that the existing Contract will remain

valid until the new one has been adopted. The delegates upheld the motion.

The Conference passed without objections a revised version of the Statute presented by the Statute Committee Chairman, Oleksandr Zaporozhets, and supported changes to the composition of the labor disputes and safety commission. First Vice-Rector Valery Kozlovsky was elected the Commission's new chairman.

The Staff Conference heard constructive discussions, while no objections were submitted regarding its holding.



The NAU delegation headed by Rector Volodymyr Isaienko joined the work of the International Civil Aviation Organization's New Generation of Aviation Professionals (NGAP2) Global Summit. It was the second time ICAO was holding the Summit, this time in Shenzhen, China.

Over 1000 aviation professionals, government officials, and scholars from across the globe, discussed strategies for training qualified and competent aviation experts to ensure stable operation, maintenance, and control of air traffic in the future.

In her opening remarks, Secretary General of ICAO Dr. Fang Liu said: "By 2036, some 620,000 pilots will be needed across our global network, and no less than 80% of these aviators will be new pilots not yet flying today. A similar story is playing out with respect to the future air traffic controllers, cabin crew, maintenance personnel and other skilled technicians needed."

She has added it is important that ICAO maintains the momentum gained in the NGAP area, and it is equally important that the participants bring the scale of these tasks to the global level.

INTERNATIONAL ASSOCIATION OF AVIATION AND AEROSPACE EDUCATION (ALICANTO)



On the sidelines of the Summit, NAU Rector Volodymyr Isaienko held a number of working meetings, including with the World UAV Federation President Yang Jincai, the organization's Secretary General Norman Ng, Deputy Director of the Air Navigation Bureau at ICAO Catalin Radu, and RSA Deputy Minister of Transport Sindiswe Chikunga.



International Association of Aviation and Aerospace Education took off at the Aviation University Forum held within the framework of the Next Generation of Aviation Professionals Global Summit held in Shenzhen, China. Rector Volodymyr Isaienko represented National Aviation University to sign off the Agreement.

Together with NAU, the Agreement was signed by representatives of more than 30 world's leading aviation universities. Another twenty expressed their will to join the Association. In general, universities of Australia, Belarus, the United Kingdom, Venezuela, Georgia, Germany, Italy, Canada, China, South Korea, South Africa, Poland, Russia, Romania, Singapore, Slovakia, the USA, Turkey, France, and the Czech Republic supported the establishment of ALICANTO.

The Association's objectives include representing, promoting, and protecting

at the global and regional levels the interests of universities offering aviation-related programs. In particular, the Association will participate in the work of the ICAO's NGAP Program, representing the interests of governments, industries, and higher education facilities.

Partner universities have decided that their coordinated efforts and general contribution will help find and implement effective approaches to challenges in engaging and training a new generation of aviation professionals, also making sure they stay in their jobs.

The move to set up the Association was initiated by Dr. Isaienko, the Rector of NAU, in Nov 2017 at the ICAO Headquarters (Montreal, Canada) during the signing of a Memorandum between ICAO and the NAU on the coordination and organization of training of Ukrainian aviation professionals at the ICAO Office.

COOPERATION WITH WORLD UAV FEDERATION



PHD STUDENT AT AEROSPACE INSTITUTE TOOK PART IN SECOND "ICAO MODEL" FORUM

Onyedikachi Chioma Okoro, a PhD student at NAU's Aerospace Institute, attended

the Second "ICAO Model" Forum held in the framework of the Second ICAO "New Generation of Aviation Professionals" (NGAP) Global Summit.

Some 180 university students from 28 countries discussed civil aviation-related problems, prepared for them by ICAO technical experts. The Forum was a unique possibility to raise students' awareness of ICAO's role in the international arena as well as complex challenges of reaching global consensus on critical air traffic issues.

Forum participants were able to work in teams, offering approaches they believed would be best to specific issues, including Unmanned Aircraft Systems (UAS): next-gen aviation; hazardous air cargos; social-economic advantages of air transportation; air safety; and strengthening air safety systems. The teams reported on the results of their joint work to a board of aviation experts.



Rector of NAU Volodymyr Isaienko during his Shenzhen visit met with World UAV Federation President Yang Jincai and the organization's Secretary General Norman Hung-Ning NG. Mr. Jincai awarded Dr. Isaienko with a Diploma of the World UAV Federation Honorary Member.

NAU vice-rectors Oleksandr Zaporozhets, Volodymyr Kharchenko and Arthur Gudmanian during their meeting with top managers of Georgian universities talked cooperation on promoting scientific and technological progress and improving the efficiency of education and research.

The Georgian side was represented by Badri Khechbaia, Director of National Institute of Economic Research (Batumi); Natella Tsiklashvili,

Vice-rector for science at Shota Rustaveli Batumi State University; and Ketevan Goletian, dean of the logistics faculty at Batumi Navigation University.

NAU's Faculty of Economics and Business Administration (FEBA) has largely contributed to the meeting, kindly assisted by Halyna Kuzmenko, Associate Professor of the Central Ukrainian National Technical University, who is also an Honorary Professor at the Batumi Navigation University.

The parties discussed joint efforts in launching and implementing joint scientific projects, setting up and holding joint conferences, drafting monographs with their further promotion among scientific publications, assisting in establishing relations with other partners, holding round-tables, gaining membership in various organizing committees, holding open lectures, jointly drafting scientific articles, doing expert work, conducting trainings, master classes, etc.

Following the meeting, the NAU delegation signed off memorandums on cooperation with each of the Batumi-based higher educational facilities mentioned.

EXPANDING CONTACTS WITH GEORGIAN UNIVERSITIES



The parties reached an agreement on the NAU participation in the Second Unmanned Aviation Congress set to be held in Shenzhen June 22-23, 2019. The event will engage over 2,000 organizations, while more than 300 developers will showcase their inventions.



AVIATION SAFETY TRAINING for SE ANTONOV management



TOP managers of "Antonov" State Enterprise have completed recurrent training at the NAU-based ICAO Training Institute within the framework of the comprehensive program with the latest course titled "Systemic Approach to Aviation Safety Management for Heads of Aviation Companies".

The Antonov group included senior managers: Vice-President for Design Oleksandr Los, Vice-President for Production Vitaliy Chypak, and Director of Quality, Certification and Aviation Safety Management System Yuriy Kordianin.

The group members noted the practical focus of the training course, adding that it can be applied in everyday operations of the company top management. Also, they appreciated lively discussions of relevant global, regional, and national regulations related to the aviation safety system.

A total of 107 Antonov employees underwent recurrent training at the ICAO Institute in 2018.

LANGUAGE COMPETENCE: COMPLIANCE WITH ICAO REQUIREMENTS

The ICAO Training Institute hosted an annual recurrent training seminar for raters/examiners in the field of Aviation English. A psychological portrait of Aviation English rater/examiner was reviewed, while discussions were also held on a number of global issues related to aviation safety. New terminology was in focus including in cybersecurity, as well as recognizing certain alarming behavior to spot problem passengers. Topics discussed at the seminar will be included in training

ICAO Training Institute has offered National Guard servicemen an aviation safety course designed to ensure safe transportation of special categories of passengers. Having completed the course, the selected guardsmen gained practical skills and new knowledge in the area.

National Guard Commander, Colonel-General Yuriy Allerov, on behalf of the Command and personnel, commended NAU's ICAO Training Institute Director Galyna Suslova for her pro-active role in practical training of the National Guardsmen.

UKRAINE'S GUARDSMEN



TRAINING OF NATIONAL



"AVIATION SAFETY MANAGEMENT SYSTEM" TRAINING COURSE

System approach to aviation safety is a focal point of the "Aviation Safety Management System" training course set up by the ICAO Training Institute. Institute Director Galyna Suslova along with a pair of instructors – Dmytro Bugayko and Oleksandr Bashta – are in charge of the program.

Among course participants, there were civil aviation organizations' employees, including of SE Antonov, AtlasJet Ukraine, Anda Air, Vulkan Air, Valan (Moldova), Sky Service handling agency, and Ukrainian Handling Company.

and recurrent training programs designed for aviation professionals in line with ICAO international requirements.

The seminar yielded productive results due to professionalism of instructors and a pro-active stance of Aviation English teachers, raters,

and examiners representing the Ukraine International Airlines Training Center, NAU's Kirovohrad Flight Academy, NAU's Kremenchuk Air College, Interbridge Training Center, Condor Flight Training School, and other educational facilities.



Rector Volodymyr Isaienko, Director of the ICAO Training Institute Galyna Suslova, and chief of the Ukrainian State Air Traffic Services Enterprise (UKSATSE), Dmytro Babeychuk, have signed the Memorandum on Cooperation and Partnership allowing the sides to develop a new personnel training area in the field of air safety, and UKSATSE professionals – to obtain ICAO international certificates.

UKSATSE personnel and instructors from the ICAO Training Institute will be involved in training courses in various fields dealing with the operation of individual components of aviation safety management systems, both separately and as part of integrated management systems, specific to the operation of air navigation service providers.

MEMORANDUM ON COOPERATION WITH UKSATSE



Training programs will cover the following areas: flight safety supervision and management, risk management, setting up and conducting aviation safety-related items within the air traffic management system, as well as audits and inspections.

NEW CONTRACT SIGNED WITH SE "PLANT 410 CA"



National Aviation University and State Enterprise "Plant 410 Civil Aviation" on International Civil Aviation Day signed a Partnership and Cooperation Agreement. On the part of NAU, the deal was signed by Rector Volodymyr Isaienko, while the signatory representing SE Plant 410 CA's was its CEO Viktor Hankevych.

Dr. Isaienko noted that the university had launched cooperation with Plant 410 CA more than 50 years ago. "Thanks to the signing of the agreement, our long-term cooperation will see a new impetus. Two branches

of one of our university departments used to operate at the plant premises, and now, we are set to renew their work. We'd like to have new departments, new labs, and new projects born, including international ones. So I hope for further fruitful cooperation," said Dr. Isaienko.

In turn, Viktor Hankevych in his remarks said that over 70 years of the plant's history, its "development and position in the international arena are due to the National Aviation University."

"More than 150 of our professionals graduated from your university. Also, the plant is looking forward to see more young specialists, NAU graduates in the future, to bring in our team their new vision and new ideas for further development of our enterprise. I hope that we will not limit ourselves to just teaching studying letting them practice at our plant, but also partake in joint research projects, including at the international level," the plant chief said.

Appreciating years of cooperation with the university, NAU awarded Viktor Hankevych with a Diploma of Honor for Special Contribution.

Rector Volodymyr Isaienko held a working meeting with NAU partners, exporters of educational services. The meeting focused on the results of this academic year's efforts aimed at foreign students' recruitment for various forms of training.

The rector briefed his counterparts on positive trends and a growing number of foreign students over the past years. Exporters, in turn, voiced their ideas and wishes for developing cooperation. The parties also identified certain issues arising in operational activities and ways to tackle them.

The university honored its partners – StudMir, Air Pouya, Advanta, and Merosstar – with the "Leader Among Educational Service Exporters" diplomas.

Following the meeting, the parties decided to establish a NAU-based Association of Educational Service Exporters, which will mold the core for further cooperation.



UNIVERSITY TO HOST ASSOCIATION OF INTERNATIONAL PROVIDERS OF EDUCATIONAL SERVICES



WINNERS OF ELEPHANT HACKATHON RECEIVE GRANT TO EQUIP LAB

The NAU team won the Elephant Hackathon innovations contest, receiving a grant to equip at the National Aviation University a research lab.



The victorious team consisting of students Olena Todorovych and Iryna Syrotina, along with their teachers at the Institute of Ecological Safety Lesia Pavlyukh and Serhiy Shamansky, presented their project titled: "Sewage purification with microalgae." They offered an effective tool to battle excess phosphates in open water bodies. Technology implies using in treatment systems a special kind of microalgae able to naturally filter water.



Elephant Hackathon saw more than 1,000 applications, of which 21 teams were selected to participate in the competition. The NAU team was the only one, which included students.



CONGRATULATIONS TO OUR UNIVERSITY'S BEST STUDENTS!

Rector Volodymyr Isaienko awarded a number of students for their distinguished achievements in education, research, art, and sports:

Alina Andreieva – Institute of Air Navigation, Electronics, and Telecommunications;

Viktorija Vilchanska – Faculty of Military Training;

Daria Voloshchuk – Faculty of Economics and Business Administration;

Kyrylo Yereshchenko – Faculty of Transport Technologies;

Vladyslav Kyychenko – Institute of Ecological Safety;

Oleksandr Lazarevsky – Institute of Information and Diagnostic Systems;

Olha Martynchuk – Institute of Computer Information Technologies;

Iryna Matsun – Institute of International Relations;
Veronika Momotiuk – Law Institute;
Alina Syvokonenko – Institute of Humanities;
Maria Chernysheva – Institute of Airports;
Viktorija Shevchenko – Institute of Continuing Education.

Congratulations to all students! We wish you further success, endless energy, inspiration in your endeavors, and new accomplishments!

BEST STUDENTS!



Student of the Institute of Humanities, Tetiana Obodovska, became a laureate of the XIX All-Ukrainian Contest "Ukrainian, Language of Unity," held in Odesa.

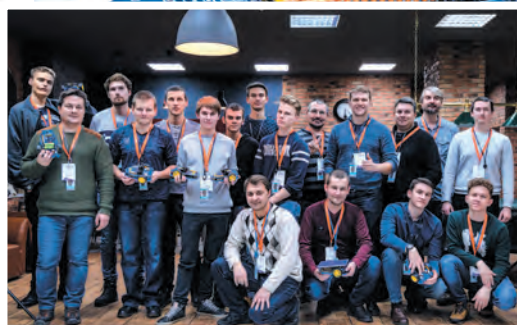
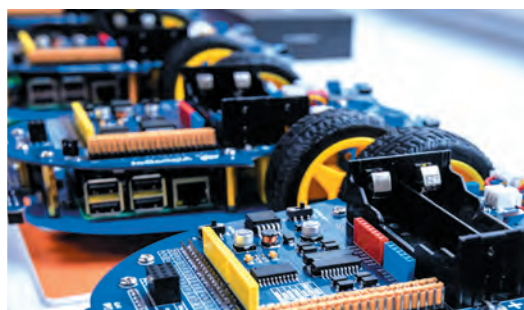
The competition was organized by the National Union of Journalists of Ukraine and the Black Sea Academy of Language Technology and Communications, attracting participants from across Ukraine and beyond, including from the U.S., Canada, China, Germany, Israel, India, Estonia, Bulgaria, Macedonia, Poland, Belarus, and Moldova.

NAU STUDENT TOPS IN "UKRAINIAN, LANGUAGE OF UNITY" CONTEST

The jury noted Tetiana Obodovska's project titled "Means of covering operations of the Association of Wives and Mothers of ATO Fighters NGO".

The student's scientific advisor in the project was Svitlana Lytvynska, Associate Professor of the Institute of Humanities' Department of History and Documentation.

THIRD PLACE AT GLOBALLOGIC KYIV EMBEDDED HACKATHON



The team comprised of students and faculty staff at the Institute of Air Navigation, Electronics, and Telecommunications' Department of Electronics ranked third at the Hackathon organized by Global Logic.

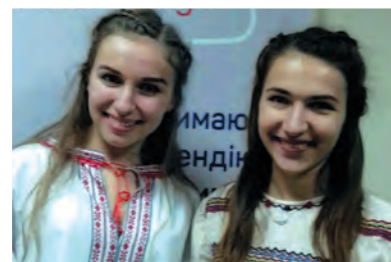
Denys Navrotsky, Oleksiy Savchenko, Dmytro Poltoratsky, and Fedir Katushonok have developed a smart car control program applying the V2X protocol and programmed smart cars' behavior in standard and non-standard situations.

The program's performance has been practically tested using real car models, each controlled by a Rasberry Pi 3-based microcontroller, using the V2X data exchange protocol.

The team operated in the IDE QT Creator on Ubuntu, using Python and C++ programming languages.

SUCCESS IN "FUTURE OF UKRAINE'S TOURIST INDUSTRY" COMPETITION

Alina Kovalenko and Oksana Pustova, students of the Institute of International Relations, won a six-month scholarship at the VII All-Ukrainian Student Scholarship Competition titled "Future of Ukraine's Tourist Industry".



The two students successfully presented and defended their innovative tourism project "Discover U Countryside" where they substantiated possibilities of development of engaging recreational and tourist activities in rural areas across Kyiv region. The project's scientific advisor was Hanna Uvarova, Associate Professor at the Department of Country Studies and Tourism.

It was the fourth time that our students took part in the National "Steel Freedom" Architectural Competition.

The jury promoted a project by Team C57 (Arsen Zerali, Ihor Osadchuk, Vladyslav Keliukh, and Maksym Rakovych) to the competition's



GRAND PRIZE AT STEEL FREEDOM-2018 CONTEST



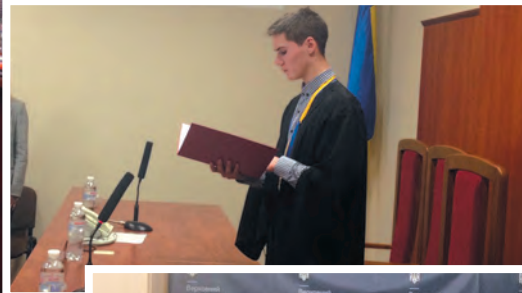
semifinals in the category "Concept of Public Buildings Complex in Kyiv's Holosiyivsky district".

The contest's general partner, Metinvest, awarded C57, the team represented by students of the Institute of Airports, with a grand prize – a trip to the London Festival of Architecture 2019.

BEST IN FIRST ALL-UKRAINIAN MOOT COURT DEBATE CONTEST



Students of the Law Institute won the All-Ukrainian Moot Court Debate Contest in Administrative Jurisdiction, hosted by the Cassation Administrative Court of the Supreme Court.



NAU's team called HONESTAS LEGALIS competed with four rivals: "PRO BONO" (Lviv Trade and Economics University), "Themis" (Vasyl Stus Donetsk National University), "SERVI LEGIS" (Zaporizhia National University), and "KNTEU Generation" (Kyiv National University of Trade and Economics).



Our HONESTAS LEGALIS boasted a first degree diploma, a Cup, and valuable gifts. Runners up were a team of Zaporizhzhya National University. The competitors from Vasyl Stus Donetsk National University sealed the third spot in the competition.

Dmytro Harbulinsky and Daria Voloshchuk have brought home victories from a Martial Arts Festival held in Kyiv. Among teams from nine Kyiv-based higher educational facilities trying their best in the tournament, NAU deployed its coed team in eight weight categories.



In general count, Team NAU, led by Vasyl Pakhomov of the Institute of Humanities' PE department, stopped short of winning the tournament.



SPORTS ACHIEVEMENTS

Oleksandr Aldoshyn of the Military Training Department won silver in individual sniper shooting contest among Kyiv students.

NAU's two teams taking part in the tournament, both trained by Assistant Professor at the Institute of Humanities' PE department Volodymyr Bobr, ranked 5th and 11th.

With seven victories in pocket, Team NAU got into the TOP-5 in the Kyiv Chess



- Nazar Piletsky,
- Vadym Burianov,
- Oleksiy Tkachenko,
- Ivan Korniyuchuk,
- Oleksandr Lutsyk,
- Angelina Berdeha,
- Yelizaveta Morozova

have all won in their categories.

Team NAU triumphed at the All-Ukrainian VIP Law Student Competition, organized by the university's Law Institute jointly with the Coordinating Council of Young Lawyers under the Ministry of Justice of Ukraine. A total of 20 teams competed in the contest.

The team of NAU's Law Institute won the first prize, while the team representing Yaroslav the Wise National Law University were runners-up. Another team in TOP-3 was from Ivan Franko National University of Lviv. In line with the rules of the competition, the winners confronted at a super-final stage a team of Ukraine's leading lawyers. And Team NAU won, again.



Another major victory came as the Law Institute's team topped at the Koretsky International Law Competition.

The team of students and faculty staff from the Constitutional and Administrative Law Department drafted an application to be filed with the European Court of Human Rights. Also, team members voiced comments to Government regarding the admissibility of a particular case and spoke in a moot ECHR hearing.

Having edged past other teams to the final round, Team NAU sealed their victory against the team representing Ihor Sikorsky Kyiv Polytechnic Institute.

Attention, inventors!

You are welcome to pitch your bids for the competitive selection of start-ups to receive grants from the Invention Support Fund of the Ministry of Economic Development and Trade of Ukraine.

Applications shall be accepted until March 31, 2019, in the following areas:

1. Development of modern information, communication technologies, and robotics;
2. Development of new technologies in energy transportation, implementation of energy-efficient, resource-saving technologies, and development of alternative energy sources; and
3. Development of new technologies in high-tech progress of the transport system, rocket and space industry, aircraft and shipbuilding, armament, and military equipment.

By submitting an application through a public portal, developers will take part in the competition and get a chance of receiving a two-stage financial grant assistance.

The first stage involves support in shaping the idea, creating a business model, drafting a presentation, and conducting the necessary research. During the second stage, the inventor will be able to form the authorized capital of their company, attracting up to UAH 2 million from the state in the person of the State Innovation Finance and Credit Institution, and the same amount – from the investor. You can find detailed information on the website of the Ministry of Economic Development's Invention Support Fund.



Foreign Languages Department of the Institute of International Relations, jointly with the European Union Information Center, organized a "Europe's Christmas Fantasy" Fest.

Attendees were briefed on the EU's educational programs, culture and traditions of European nations, ethnic music, and traditional souvenirs. The EU Information Center held contests and quizzes, awarding the most engaged participants.

At a charity fair held on the festival's sidelines, all guests had an opportunity to enjoy various national cuisines from all over the globe. The organizers of the Fair donated all funds raised to a sick children rehabilitation project.



More than 50 students of the Luhansk regional territorial branch of the Small Academy of Sciences of Ukraine engaged in mathematics, biology, chemistry, and robotics have visited NAU in the framework of Science Days. Students visited the Aviation Training Hangar, where they could imagine themselves being real pilots in a training session on a Tu-154 simulator.

Head of the Avionics Department Svitlana Pavlova and Associate Professor Oleksandr Varchenko addressed the students, explaining how their department works. Then came the lectures offered by university staff. Professor of the Department of Aerospace Management Valery Azarskov talked about aerospace studies at NAU, while head of the electronics department Felix Yanovsky told the kids about the Internet of Things and modern radar technologies. Associate Professor of the Department of Radio-electronic

SCIENCE DAYS

FOR SCHOOL STUDENTS FROM LUHANSK REGION



Devices and Systems Yevhen Habrusenko delivered a lecture titled "Fundamentals of Radio Monitoring and Information Security."

The young talents from Luhansk region visited the Scientific-Technical Library, where sector chief Oksana Lazarenko told the children of STL's huge stock of more than 2 million two-million books, including works of contemporary Ukrainian writers, among whom there are Donbas natives Vasyl Holoborodko, Serhiy Zhadan, and Irena Rozdobudko.

ORIENTATION FOR VYSHENEVE SCHOOL STUDENTS



Some 300 high school students from the town of Vyshneve and Kyiv Sviatoshyn district attended a "Job Fair" orientation event. NAU was represented by the Institute for Continuing Education.

Applicants learned about university curriculum, including classes taught in English, and opportunities available to join a variety of international educational projects and programs. They were informed about research and development practices and time in campus, as well as real possibilities of joining internship programs in developes companies, and prospects of further employment in the chosen area.

High school students were invited to visit NAU on Open Doors days: February 2, April 11, and June 8 or opt for an excursion to learn more about the university.

The University has signed a cooperation agreement with the Rivne Students' Small Academy of Sciences.

The Agreement envisages cooperation in the field of scientific experiments, educational methodology, and management in relation to specialized extra-curricular education, and is aimed at discovering and supporting young talents. To this end, university scholars will hold lectures at the Gifted Youth Center operating under the auspices of the Institute for Continuing Education, where workshops and various trainings are offered.

Thus, the cooperation between NAU and regional branches of the Small Academy of Sciences of Ukraine is not only aimed at developing and popularizing the university's scientific potential among young people, it also focuses on preparing applicants to R&D routine.



COOPERATION WITH RIVNE SMALL ACADEMY OF SCIENCES

Mriya's wingspan is 88.4 meters. Only two planes surpass the An-225 in this regard: the Hughes H-4 (97.5 m), which belongs to the class of flying boats and made only one flight in 1947, and a twin-fuselage Stratolaunch (117.3 m).

The construction process started in 1985 and lasted only three and a half years – a comparatively small term from the aircraft design perspective. The aircraft design was based on the An-124-100 "Ruslan" model, therefore Mriya shares with her older brother a large number of common equipment and parts. The "Mriya" logo was put on the aircraft the night before the new airplane was tugged from the assembly shop.

In Mriya's CV, there are actually three "maiden" flights:

- December 21, 1988, An-225 first took off to the sky;

- May 3, 1989, the aircraft first carried the Buran spacecraft.

- May 7, 2001, Mriya, which had by that time been restored and modernized for commercial exploitation, took off after it was mothballed for a long time when the Energy Buran program was shut down. This date is considered Mriya's second Birthday.

The gear consists of 32 wheels: four in the nose gear and 28 – in the main one in a unique set of seven rows of four. Four rear rows can rotate to an angle corresponding to the radius of aircraft rotation, so it takes only 56 meters for Mriya to complete a 180-degree turn.

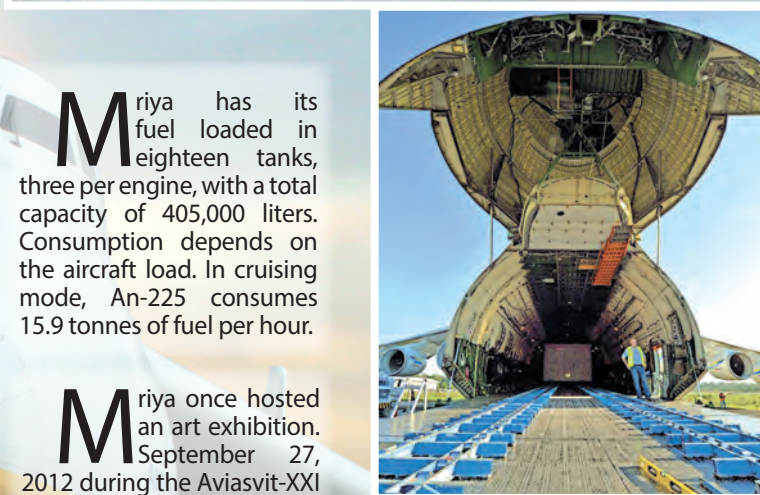
Thirty years ago, on December 21, 1988, the world's largest cargo aircraft, An-225 "Mriya," made its maiden flight, setting 110 world aviation records at once. Since that time, the number of Mriya's records reached 240, which is an absolutely unprecedented case in aviation history.

In 2005, British experts included An-225 "Mriya" in the list of 13 most prominent aircraft in the history of aviation. Its images were engraved on thirteen silver coins issued in the UK. In 2002, the NBU issued a commemorative "An-225 Mriya" coin in UAH 5 denomination, as part of the series titled "Airplanes of Ukraine".

Mriya is the only cargo aircraft equipped with six jet engines having nearly 75,000 hp capacity.

An-225 "Mriya" ("Cossack" in NATO classification) was developed by the Antonov Design Bureau in Kyiv.

The Ukrainian flying giant has always attracted huge public attention, leaving crowds amazed with each take-off and landing. Remaining the only model of its kind ever produced, it firmly remains in the global focus as one of the largest machines in the aviation industry.



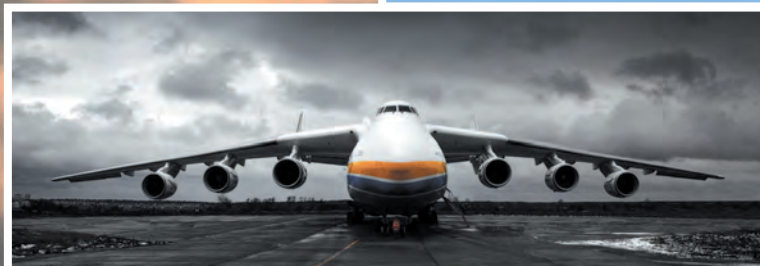
Mriya has its fuel loaded in eighteen tanks, three per engine, with a total capacity of 405,000 liters. Consumption depends on the aircraft load. In cruising mode, An-225 consumes 15.9 tonnes of fuel per hour.

Mriya once hosted an art exhibition. September 27, 2012 during the Aviasvit-XXI air show, there was an art exhibit set up on board at an altitude of 10,500 m. Some 500 paintings of 90 artists were exhibited.

The giant takes off at 560 km/h and lands at 295 km/h. It can stay in the air for up to 18 hours and tackle the distance up to 15,000 km per flight.

The cargo compartment is able to accommodate 270 giraffes and 200 Daewoo Lanos cars. Mriya can carry four times as much cargo as a Boeing 737. The airplane is even able to transport the entire Boeing 737 body.

30
YEARS OF
MRIYA





MEETING OF UKRAINE'S ASSOCIATION OF AIRPORTS

The Ecology Department of the Institute of Ecological Safety hosted a meeting of the Aviation Fuel Supply Committee of the Association of Airports of Ukraine, attended by representatives of 10 Ukrainian airports, the State Aviation Administration, and the State Fiscal Service of Ukraine.

The Committee members discussed harmonization with of European standards of the process of aviation fuel supply in Ukraine, equipment upgrade, procedures for metrological verification, and a new technology for the acceptance and clearance of aviation fuels.



NAU DEPARTMENTS RECEIVE SAMPLES OF AVIATION COMPONENTS

AVIATOR

The Department of Aircraft Design and the Aircraft Retrofitting Department of the Aerospace Institute received from LLC "MAUtechnik" (a subsidiary of the Ukraine International Airlines) samples of aviation components for conducting practical exercises to study non-destructive methods of control and investigation of fatigue damage.

Today, the training of highly skilled aviation specialists would be impossible without the practical component of such training. According to EASA regulations, the number of practical training hours should be 50–60% of the total study time. In addition, in order to acquire the necessary level of practical skills and abilities, students must study in conditions that are as close as possible to the production environment, and with the appropriate equipment at hand.

ORGANIZATION OF AVIATION, MULTIMODAL TRANSPORTATIONS OF AVIATION

That's what was discussed at the international scientific and practical conference, dedicated to the 45th anniversary of the Department of Air Transportation of NAU's Faculty of Transport Technologies.

Vice President of Ukraine International Airlines Serhiy Fomenko highlighted the importance of organization of transfer flights in Ukraine and emphasized UIA's leading role in the process. Alla Novikova, deputy director of science at the State Enterprise "State Automobile Transport Research and Development Project", focused on the prospects for the development of aviation transportation in accordance with the National Transport Strategy of Ukraine until 2030. Professor Khrystyna Marintseva of the Department of Aviation Transportation revealed the role of the university in addressing global issues in the area.



The use of UAVs in various spheres of the economy (express delivery, agriculture, logistics, etc.) was discussed in the reports delivered by the head of the department of the organization of air transportation, Hennady Yuna, and postgraduate students Andriy Hnashuk and Denys Medynsky.

TOP VACANCY AT NAU'S KRYVYI RIH COLLEGE

The National Aviation University announces a competition for the vacancy of the head of NAU's Kryvyi Rih College. Job applications will be accepted within a month from the day of publication of the competition announcement at the following address: 03058, Kyiv, 1 Kosmonavta Komarova Avenue (Building 1), room 128. Please call +38 (044) 406-76-18 for additional information about the requirements for applicants.

NAU held a second session of the training practice for student experts on the quality of higher education (UASQA Pool). The event was organized by the Ukrainian Student Association with the support of the Ministry of Education and Science of Ukraine.

On the first day of the session, participants met with Deputy Minister of Education and Science of Ukraine, Yuriy Rashkevych. In his address, the official noted that "the university system has always been based on trust, which, in the first place, is measured by quality.



Without trust in quality, there can be no academic mobility, recognition of qualifications, loan transfers, and other things that shape the academic environment. "On behalf of the Ministry of Education and Science of Ukraine, Yuriy Rashkevych expressed his sincere gratitude to the National Aviation University for creating a positive atmosphere and favorable conditions for the training practice.

TRAINING FOR STUDENT EXPERTS ON QUALITY OF HIGHER EDUCATION



During the training, the students had an opportunity to share their views with guests and prominent speakers, and gain knowledge they need to participate in the system of internal and external control over higher education quality, analysis of educational programs, etc.

OUR CONGRATULATIONS!



On January 1, **Valeriy Azarskov**, Head of the Department of Aerospace Control Systems at the Institute of Air Navigation, Electronics and Telecommunications, celebrated his 75th Birthday.

He is, an Honored Specialist in Ukrainian Transport Services, laureate of the State Prize in the field of science and technology.

Valery Azarskov graduated from the Kyiv Institute of Civil Aviation Engineers.

He launched his career as an engineer of the research department, then its head, then Professor, to become Faculty Dean and then Director of the NAU Institute.

He has developed and practically applied training simulators for astronauts readying to fly to the moon and other planets, control systems for complex dynamic objects, methods and algorithms for creating optimal control systems for moving objects, and methods of structural identification of control system dynamics.

He has published over 240 works in print, among which there are monographs and teaching aids, author's certificates and invention patents.

He trained eight candidates and two doctors of sciences.

We wish him good health, happiness and longevity! Let him always enjoy inspiration and will to share invaluable experience with new generations!

PARLIAMENT ISSUES PERSONAL SCHOLARSHIPS

Young scientists from National Aviation University received scholarships from the Verkhovna Rada of Ukraine.

Decree "On the appointment of nominal scholarships of the Verkhovna Rada of Ukraine for the most talented young scientists in 2019" assigned personal scholarships to:

- **Serhiy Hnatiuk**, Doctor of Technical Sciences, Professor at the department of IT Security at the Institute of Information and Diagnostic Systems, senior fellow at NAU's Scientific-Research Division; and

- **Svitlana Kazmirchuk**, Doctor of Technical Sciences, Head of the Department of computerized IT security systems at the Institute of Computer Information Technologies;

Sincere greetings to our colleagues! Wishing them inspiration and new scientific achievements!





UKRAINE STATE AMONG AVIATION MUSEUM WORLD'S TOP-20 AVIATION MUSEUMS

CNN ranked Oleg Antonov State Museum of Aviation of Ukraine operated by National Aviation University ranked among the world's TOP 20 aviation museums.

The CNN report says the museum houses one of the world's biggest displays of aircraft types. Today, the museum boasts more than 90 exhibits, including supersonic bombs, transport planes, and nuclear missile carriers.

One of the most impressive exhibits is the Tupolev-104, the journalists wrote. "On September 15, 1956, a very important event for civil aviation occurred," Professor Felix Yanovsky, head of the electronics department at the National Aviation University, told CNN. "The world's first jet airliner, the Tupolev-104, made its first passenger flight between Moscow and Irkutsk. This plane is now in the State Aviation Museum of Ukraine, and it's the oldest surviving aircraft of this type."

The list of world's best aviation museums also includes those in Australia, Austria, UK, Spain, Canada, China, Poland, Russia, USA, and France.



"AVIATOR" NEWSPAPER OF NATIONAL AVIATION UNIVERSITY. Publisher: National Aviation University. Chief Editor: Yurii NESTERIAK, Design by Roman YAROSHENKO. The authors of the publications are responsible for the authenticity of the information. Registration number: № 145, series KI. 05.02.1996. Address: 03058, Kyiv, ave. K. Komarova, 1, Center of Media Communication, corp. 1, k. 1-142, tel.: (+38044) 406-75-90. Circulation: 2500 copies. Distributed free of charge.