



for 5
years



UNITED NATIONS
EDUCATIONAL, SCIENTIFIC AND
CULTURAL ORGANIZATION



JUNIOR ACADEMY
OF SCIENCES OF UKRAINE
UNDER THE AUSPICES OF UNESCO

**INTERNATIONAL
ACTIVITY REPORT
OF NATIONAL CENTER
«JUNIOR ACADEMY OF
SCIENCES OF UKRAINE»
UNDER THE AUSPICES OF UNESCO**

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UNESCO CENTER STATUS SECOND CATEGORY



Ukrainian
delegations
of students at
international events



leader in
extracurricular
education



delegations
at regional
international
educational events



constant partners
in education, science
and museum affairs



international
scientific
schools



JASU's
representatives
are included
in committees
of the international
organizations

250 000
UKRAINIAN PUPILS
INVOLVED



MEMBER OF INTERNATIONAL
LEISURE MOVEMENT
IN THE FIELD OF SCIENCE
AND TECHNOLOGY "MILSET"



GETTING THE STATUS OF
ACADEMY COPERNICUS



permanent
diplomatic partners
and Ukrainian
diasporas



held world
recognizable
Olympiad



visits by foreign
speakers, including
four Nobel Prize
winners



awards



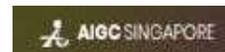
countries
of the world
are covered by the
communicational
network



Ukrainian students
participated in the
international events

IN THE SYSTEM
OF SCIENTIFIC SEARCH OF THE
**JUNIOR ACADEMY
OF SCIENCES OF UKRAINE**

RESULTS OF THE PARTICIPATION OF THE JASU DELEGATIONS IN THE **LAST 3 YEARS:**



MORE THAN **700** PARTICIPANTS
AT **60** INTERNATIONAL EVENTS
WON **100** AWARDS



MOSTRATEC



bio^{cen}
BioCentrum Edukacji Naukowej



1

International
competitions



GENIUS INTERNATIONAL OLYMPIAD



2017



2018



2019

THE WORLD'S **LARGEST** RESEARCH PROJECTS COMPETITION FOR HIGH SCHOOL STUDENTS ON **ENVIRONMENT CONVERSATION AND ECOLOGY** WITH PARTICIPANTS FROM 80 COUNTRIES FROM ALL AROUND THE WORLD. IT IS FOUNDED AND HOSTED BY TERRA SCIENCE AND EDUCATION AND THE OSWEGO STATE UNIVERSITY OF NEW YORK.



“LET’S BUILD A BETTER FUTURE TOGETHER”

Genius Olympiad is open for projects in five disciplines with **an environmental focus**.

During the last 3 years, the students-members of the Junior Academy of Sciences of Ukraine won **9 medals** (3 delegations, 11 participants):



2 gold awards



1 silver award



2 bronze awards



4 fourth places





INTEL INTERNATIONAL SCIENCE AND TECHNOLOGY FAIR (INTEL ISEF)



2015



2016



2017



2018

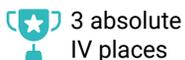


2019



Each year, approximately **1800 students** from more than **75 countries**, regions, and territories have the opportunity to demonstrate their research results in **18 areas**, including mathematics, natural and applied sciences and compete for the total prize fund of \$4 million.

The students of the JASU have participated in the finals of the competition since 2004, and for the last 3 years Ukrainian students have successfully achieved:



3 absolute
IV places



7 special
prizes

THE WORLD'S **LARGEST AND MOST PRESTIGIOUS** RESEARCH COMPETITION FOR 9-12TH-GRADE STUDENTS HELD IN THE UNITED STATES WITH THE SUPPORT OF INTEL COMPANY.



Also, as of 2018, JASU of Ukraine is the only European organization that was honoured to present special awards at the Intel ISEF Competition.





INTERNATIONAL CONFERENCE OF YOUNG SCIENTISTS (ICYS)



2015



2016



2017



2018



2019

ONE OF THE **MOST WELL-KNOWN AND HIGHLY REGARDED** ANNUAL RESEARCH PROJECT COMPETITIONS IN THE WORLD, ORGANIZED BY AN INTERNATIONAL COMMITTEE.



The history of the competition is composed of **25 years of successful work**, during which 2083 presentations made by 3597 participants from more than 30 countries of Europe, Asia, South America, and Africa. Now students have the opportunity to demonstrate their knowledge and skills in **7 areas**.



The first participation of the JASU team was in **2005**.

Performance for 2013–2019: **38 medals**, 7 delegations, 48 participants.

For the **last 3 years** Ukrainian delegations won:



4 gold medals



11 silver medals



19 bronze medals



4 special prizes





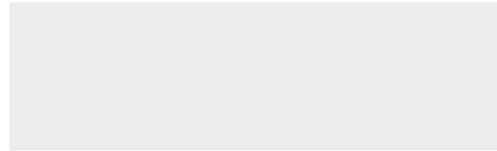
INTERNATIONAL SCIENCE PROJECT OLYMPIAD (INSPO)



2018



INTERNATIONAL SCIENCE PROJECT OLYMPIAD (INSPO) IS ORGANIZED FOR HIGH SCHOOL STUDENTS. PARTICIPANTS CAN PRESENT THEIR PROJECTS IN SUCH AREAS AS ENGINEERING, ENERGY, ENVIRONMENTAL SCIENCE, AND HEALTH. ALONGSIDE THIS, INSPO IS AN AFFILIATED COMPETITION WITH MOSTRATEC.



In 2018, the team of JASU (4 students) participated in the competition for the first time and achieved:

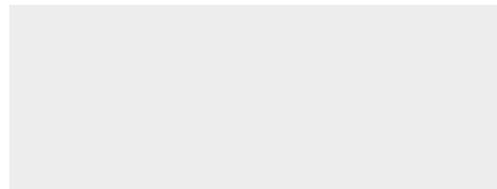
 3rd absolute place

 4th absolute place

 1 special prize



In addition to the competition program and during their stay in Turkey, the delegation members visited the divine service.





THE INTERNATIONAL MOVEMENT FOR LEISURE ACTIVITIES IN SCIENCE AND TECHNOLOGY (MILSET)



2017



2018



2018



2018



2019

THE MILSET INTERNATIONAL MOVEMENT FOUNDED BACK IN 1987 IN QUEBEC, CANADA, HAS A PERMANENT PROJECT CALLED **EXPO SCIENCE INTERNATIONAL** HELD EVERY 2 YEARS IN DIFFERENT COUNTRIES:

- **Asia** – “MILSET ESA”;
- **Europe** – “MILSET ESE”;
- **Middle East** – “MILSET ESI”;
- **Latin America** – “MILSET ESI AMLAT”.



“Expo-Sciences” – is **UNIQUE** multicultural exhibition project and interactive exhibition in the area of **STEAM (science, technology, engineering, arts, and mathematics)** designed by children and young people from all over the world, which includes cultural and scientific visits, leisure activities, seminars, and conferences.

Since 2017, JASU has become a full member of the MILSET movement and has participated in one of the regional exhibitions for the first time, and Deputy Director for International Affairs of the JASU Yevhen Kudriavets joined the **MILSET Europe Executive Committee**.

“INSPIRING YOUNG PEOPLE THROUGH STEAM INITIATIVES”





MILSET EXPO-SCIENCES INTERNATIONAL



2017



2019



2017 WAS A SIGNIFICANT YEAR FOR UKRAINIAN SCIENCE AND EDUCATIONAL DIPLOMACY AS, BY THE DECISION OF THE MILSET GENERAL ASSEMBLY WHICH WAS MADE AT THE YOUTH SCIENCE PROJECT EXHIBITION OF THE MILSET EXPO-SCIENCES INTERNATIONAL 2017, THE JASU BECAME THE **ASSOCIATED MEMBER OF "MILSET"**.

6 students of the JASU took part in the MILSET exhibition, where they demonstrated their inventions and innovations in various fields.

Results of participation at the event were:

- Establishing the cooperation with representatives of more than 10 countries of the world;
- Reaching agreements with Polish colleagues to expand the program of BioCen Summer International School of Biology;
- Achieving an agreement with the Tunisian representatives on the participation of the students of the JASU in the respected I-FEST competition.



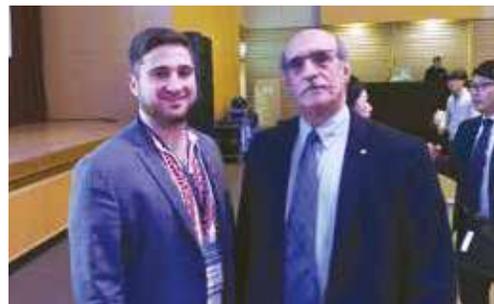


MILSET EXPO-SCIENCES ASIA (MILSET ESA)



2018

EVERY 2 YEARS THE INTERNATIONAL EXHIBITION MILSET ESA IS HELD IN ONE OF THE COUNTRIES OF THE ASIAN REGION. IN 2018 IT TOOK PLACE IN DAEJEON, SOUTH KOREA.



For the first time in 10 years of the existence of this international exhibition, the team of **3 students** of the JASU participated in this event.

In addition to the official program, Ukrainian students had the opportunity to visit the Aerospace Laboratory and attend the lecture by Nobel Laureate Martin Shelf.

Young Ukrainians also demonstrated the video of Ukraine on the evening of cultures, participated in the flag ceremonies and other conference activities, visited Daejeon and Seoul science centers and museums after the conference.





MILSET EXPO-SCIENCE EUROPE (MILSET ESE)



2018

EXPO-SCIENCES EUROPE (ESE), IN WHICH THE REPRESENTATIVES FROM 27 COUNTRIES TOOK PART, WELCOMED PARTICIPANTS IN GDYNIA IN NORTHERN POLAND, LOCATED ON THE GDANSK GULF.



Seven student-members of the Junior Academy of Sciences of Ukraine, the winners of Grand Final of Science Project Competition stood for the scientific reputation on behalf of our country:

- A. Agvanyan introduced an interactive air quality monitoring system based on the NodeMCU microcontroller;
- S. Petryshyn introduced "Kitten Claws" – a device for transmission of digital information for people with visual disturbance;
- D. Fedorov demonstrated the idea of raising the level of living standards with the help of intelligent machines;
- V. Barilko introduced the multifunctional Arduino-based robotic control system with the use of Android;
- V. Petryna told about artificial intelligence algorithms for the OCTOPUS development platform;
- R. Kravchenko created the "RMS DETEKTOR" program used to detect the hacker remote control;
- A. Volkova demonstrated the method of soil remediation that contains heavy metals.





MILSET EXPO-SCIENCES LATIN AMERICA (MILSET ESI AMLAT)



2018

AMLAT ESI 2018 TOOK PLACE IN ANTOFAGASTA, CHILE AT THE CATHOLIC UNIVERSITY OF THE NORTH. AT THE EVENT PARTICIPATED THE BEST PROJECTS SELECTED AT THE NATIONAL LEVEL OF ORGANIZATIONS OF COUNTRIES BELONGING TO MILSET AMLAT, AS WELL AS FROM THE REGIONAL OFFICES OF MILSET.

For the first time, Ukraine was invited to an exhibition in Latin America. Sofia Petryshyn, the student of the Lviv Junior Academy of Sciences participated in the event with the project "Device for Transmission of Digital Information for People with Visual disturbance".

Sofia received high honor from the jury: **gold medal for outstanding achievements and contributions to the global youth science.**





BELT AND ROAD TEENAGER MAKER CAMP AND TEACHER WORKSHOP



2018



2019

“BELT AND ROAD CAMP AND WORKSHOP” AIMS TO STRENGTHEN INTERCULTURAL RELATIONS AND PROMOTE INNOVATION AMONG YOUNG PEOPLE.

Created as a **hackathon-competition**, the event offers a range of unique opportunities:

- **for students** – the experience of teamwork under the guidance of the best teachers;
- **for teachers** – participation in the educational forum to share the best teaching practices and develop new skills of STEM education.

During 2 years of participation, the representatives of JASU won 8 medals:



5 gold medals



1 silver medal



2 bronze medal



According to the decision of the constituent assembly of the International Committee on Science Education under the initiative “Belt and Road International Science Education Coordinating Committee, BRISECC”, **Ukraine became part of the executive team** of this highly respected institution, and the director of the JASU O. Lisovyi was elected as **one of the four vice-presidents** of the committee.

This decision was made based on the results of his report on the latest practices in the development and implementation of scientific education, which is being implemented by UNESCO Center “Junior Academy of Sciences of Ukraine”.





CHINA ADOLESCENTS SCIENCE AND TECHNOLOGY INNOVATION CONTEST (CASTIC)



2019

CASTIC IS THE **MOST RESPECTED AND THE LARGEST** SCIENTIFIC COMPETITION IN ASIA REGION FOR YOUNG SCIENTISTS AGED BETWEEN 12-20 FROM ALL OVER THE WORLD, WHO ARE INTERESTED IN SCIENCE.

The competition is part of the national network of informal science education and popular science events in China. In general, CASTIC is:

- **30** years of successful history;
- **13** branches of science;
- **20** countries and regions;
- **600** participants all over the world.

Each year, around 500 Chinese young scientists and more than 200 participants from more than 50 countries of the world visit CASTIC to demonstrate their own research projects and innovative solutions in 13 scientific fields.

The first participation of the team of JASU was extremely successful:

1 silver
medal2 bronze
medal

Traditionally, within the competition, the **special awards** are given from the leading Chinese and international organizations, which included the JASU. This year, awards from the JASU received the participants from **China, Turkey, and Tunisia**, and the Director of the JASU, O. Lisovy, executed the honorary mission and **bestowed the awards to the bronze medal winners of the competition.**



INTERNATIONAL PHILOSOPHY OLYMPIAD (IPO)



The International Philosophy Olympiad is one of the **12 world recognizable international Olympiads** in which the JASU team has participated since 2017 and was represented by 5 participants.



EU CONTEST FOR YOUNG SCIENTISTS (EUCYS)



The EU Contest for **Young Scientists**, aged between 14 to 20, was created to promote the ideals of collaboration and exchange between young scientists. The Contest is an annual demonstration of the best European student scientific achievements.

It is the **largest European** platform for the most promising young researchers.



THE INTERNATIONAL NEUROSCIENCE COMPETITION "BRAIN BEE"



**DEVELOP MENTAL ABILITIES
TO PREVENT BRAIN DISEASES**

The Brain Bee International Competition is the **only** contest in the field of neuroscience that includes material from medical universities and medical schools requiring in-depth training for competitions.



THE INTERNATIONAL SCIENCE PROJECT COMPETITION EXPOSCIENCE MEXICO



2018



2019



ONE OF THE **RECOGNIZED** LATIN AMERICAN COMPETITIONS, AIMED AT THE **PROMOTION** OF YOUTH PARTICIPATION IN SCIENCE, TECHNOLOGY, AND INNOVATION.



According to the results of the competitions in three fields, 3 project-winners are determined.

Among the winners of the competition of 2018 – the Ukrainian project created by Mykola Ivanchenko who developed a special method of cleaning water reservoirs from oil disasters.

The tradition in 2019 was continued by Yana Shkraba, who received the gold medal in social sciences for research on the creation and dissemination of neologisms and somatic phraseological units in modern Spanish.



2 gold medals





INTERNATIONAL FESTIVAL OF ENGINEERING AND TECHNOLOGY (I-FEST)

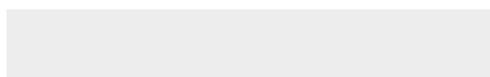


2018



2019

In September 2017, as part of the cooperation between the JASU, UNESCO, and the African countries, the JASU became a partner and affiliated institution of the International Festival of Engineering Sciences and Technologies. I-FEST - the **largest** contest of scientific projects on the African continent, with the **support of UNESCO**, and in 2018, for the first time, sent its delegations to the competition.



For two years of impressive participation in Competition, 2 delegations of the JASU have presented projects that meet the UN Global Development Goals and have received all sets of awards:



1 gold

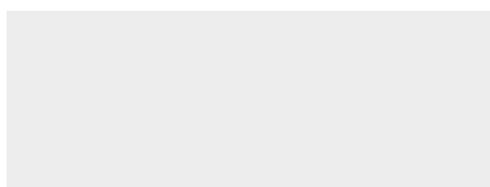


2 silver



3 bronze

Moreover, the leader of the team – Deputy Director for International Affairs Yevhen Kudriavets was awarded a **special prize of a gold medal** for the successful affiliation of Ukraine in the festival.





INTERNATIONAL CREATIVITY OLYMPIAD (DESTINATION IMAGINATIONS)



2018



2019



In 2017, Ukraine joined the Destination Imagination Program, and the JASU signed a License Agreement of the program realization and began to implement the Program in Ukraine gradually.

- 2017 – the License Agreement of the Program Implementation in Ukraine was signed;
- 2018 – **1st place at the 13th All-Polish Olympiad of Creativity**;
- 2019 – Ukraine's participation in the Global Finals of the US Olympics, represented by 4 teams.



UNIQUE INTERNATIONAL CREATIVITY OLYMPIAD "DESTINATION IMAGINATION" IS THE WORLD'S **LARGEST** CREATIVITY PROGRAM, LAUNCHED IN THE US, COVERING 42 COUNTRIES ACROSS 6 CONTINENTS, MORE THAN 20000 PARTICIPANTS, 38000 VOLUNTEERS FROM AROUND THE WORLD AND 1.5 MILLION ALUMNI.



1 place

In 2019 Ukraine was presented for the first time at the Global Finals by four teams-winners of the All-Ukrainian Olympiad of Creativity: "BrainStorm" (Vorokhta, Ivano-Frankivsk region), "Tumbleweed" (Kyiv), UCCU (Kyiv); O.K.O (Sumy).

The **best results** were demonstrated by the "BrainStorm" participants, ranking 12th out of 51 teams in the senior age group.



SCIENCE ENERGY ENGINEERING FAIR (OKSEF)



2018



2019



THE MAIN AIM OF THE OKSEF COMPETITION IS TO DEVELOP AND EDUCATE, INTERNATIONALLY, A **NEW GENERATION OF YOUNG RESEARCHERS** WHO WILL SOLVE THE ENVIRONMENTAL, HEALTH AND ENERGY PROBLEMS USING THE LATEST SCIENCE, TECHNOLOGY, AND INFORMATION TECHNOLOGY APPROACH.



Traditionally, the competition takes place in five scientific fields: "Physics", "Chemistry", "Biology", "Energy and Engineering", "Mathematics and Computer Sciences".

About 300 participants from 23 countries of the world competed with the representatives of JASU, but it did not prevent Ukrainian students from presenting their own projects and defending the honor of Ukraine at the famous international competition.

For the first time, the JASU team participated in the event in 2018, and during this time won the complete set of awards:



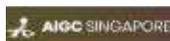
1 gold medal



2 silver medal



4 bronze medals



THE ADVANCED INNOVATION GLOBAL COMPETITION (AIGC)



2019

THE ADVANCED INNOVATION GLOBAL COMPETITION (AIGC) IS THE FIRST, LARGEST AND MOST PRESTIGIOUS STUDENT INNOVATION COMPETITION IN SINGAPORE. THE MAIN IDEA OF THE COMPETITION IS TO CREATE A UNIQUE AND QUALITATIVELY DIFFERENT COMPETITIVE PLATFORM IN THE FIELD OF INNOVATION.

In the first year of the competition, the contest has already received tremendous support and interest from the international institutions in the field of innovation. AIGC 2019 was held at Nanyang Technological University (NTU), and pupils and students could take part – up to 5 people in each team. This year the forum hosted participants from more than 10 countries, including Indonesia, Malaysia, Singapore, Thailand, Korea, the Philippines, Vietnam, China, Hong Kong, Taiwan, and others.

The debut of the Ukrainian team was distinguished by a brilliant victory – 4 gold medals of students of the Junior Academy of Sciences of Ukraine, as well as a Grand Prize of the contest – Best Award Trophy.

The JASU team consisted of four pupils: Sofia Petryshyn, who worked on the design and development of a device for transmitting digital information to people with visual impairments; Dmitry Lopushanskyi, who created a multifunctional device for the blind people "Helpyeyes";

4 Gold
medalsBest
Award

Nazar Ponochevnyi, who developed software for a harmonious combination of video and music, as well as Olga Kharasakhal, who received the Grand Prize for the investigating of Dopareaction with liquid filtration as a new method for the diagnosis of circulating tumor melanoma cells, in addition to the gold medal.





INTERNATIONAL SCIENCE AND TECHNOLOGY FAIR MOSTRATEC



2019

MOSTRATEC is a science and technology fair held annually in Brazil, presenting 752 research projects by young scientists from high school and middle-level technical education from 35 countries, such as educational robotics, sports, and cultural activities, along with integrated activities events such as SIET (International Workshop on Technical Education).

In 2019, Ukraine participated for the first time in the MOSTRATEC competition with brilliant results – 1 gold, 1 bronze, and 1 special award.

Olga Harasahal from Mariupol, who proposed a method for detecting early-stage metastases, won the gold medal. Olga also received a special award from the World Society “Free Science” with the right to publish her scientific publication in an indexed journal.

Dmytro Solomianyuk from Lviv received a bronze medal for a unique method of dealing with plastic waste and landfills named “Cleaning up the environment from plastic by encapsulated bacteria”.



1 gold



1 bronze



1 special award





IJSO INTERNATIONAL JUNIOR SCIENCE OLYMPIAD



2019

The International Junior Science Olympiad (IJSO) is one of 12 universally recognized scientific Olympiads, this is an annual competition for students under 16 years of age. In the natural sciences (biology, chemistry, and physics), which provides for individual and team competition. IJSO was created to recognize the importance of science in the general education of young people and all aspects of their lives. This is a large-scale international training and educational event for young scientists from around the world.

In 2018, the delegation of the JASU participated in the event as an observer, and in 2019 directs the first team of 6 people.

According to the results of individual and team tours Golovatska Yana, Stasovsky Olexander and Antonovych Dmytro received 3 bronze medals.



3 bronze





2

International
scientific schools and
educational visits



TOGETHER WITH THE EUROPEAN NUCLEAR RESEARCH ORGANIZATION (CERN)



SCIENTIFIC SCHOOL IN PHYSICS FOR PUPILS

The **unique** educational project of JASU was founded jointly with CERN in 2011 exclusively for Ukrainian schoolchildren, during which participants can visit:

- The Large Hadron Collider;
- S`chool LAB CERN and the physics laboratories of the University of Geneva;
- Lectures by leading physicists in Europe;
- UN European Headquarters.



DURING THE 7 YEARS OF
SCHOOLING, **MORE THAN
100 UKRAINIAN STUDENTS**
TOOK PART IN THE SCHOOL

SCIENTIFIC SCHOOL FOR TEACHERS

Since 2011, JASU provides educators with the opportunity to undergo an internship at CERN in order to transfer new knowledge to students and colleagues.



OVER THE YEARS OF SCHOOLS
EXISTENCE, **ABOUT 200 TEACHERS**
FROM DIFFERENT REGIONS OF
UKRAINE TAKE PART IN IT

In 2019, at the initiative of JASU, the All-Ukrainian Club of Honorary Ambassadors of Science of the European Organization for Nuclear Research (CERN) was founded to popularize physics in Ukraine and disseminate knowledge about CERN.





STUDY VISITS TO THE UNITED NATIONS



UN HEADQUARTERS IN GENEVA



Within the framework of the School of Physics for Schoolchildren at the CERN in Geneva, participants traditionally had the opportunity to visit the **European Headquarters of the United Nations**. During the visit in 2019, students were able to attend the next session of the UN Human Rights Council, comprising 47 states.

THE UNITED NATIONS HEADQUARTERS IS LOCATED IN NEW YORK



Recently, in addition to the traditional visits to the Geneva office, the students of the JASU also have opportunity to visit the main office of the most respected international organization – the UN – in New York to the assistance of the **Permanent Mission of Ukraine to the UN**, including Ambassador Volodymyr Yelchenko, Secretaries Veronica Tadach and Denys Lydchak.

The experience of visiting international organizations undoubtedly contributes to the development of the outlook of the young JASU students and educates a new generation of future scientific and educational diplomats of Ukraine.





TOGETHER WITH THE EXPERIMENTAL LABORATORY FOR YOUTH “XLAB” UNDER THE MANAGEMENT OF NOBEL LAUREATE ERWIN NEHER



THROUGH THE JOINT EFFORTS OF JASU AND ERWIN AND **EVA-MARIA NEHER, THE XLAB EXPERIMENTAL LABORATORY WAS OPENED**, WHICH IS DESIGNED TO LINKING THE GAP BETWEEN RESEARCH AND SCHOOL EDUCATION AND BECOME A BRIDGE BETWEEN THE SCHOOL AND THE UNIVERSITY.

The laboratory offers several practical experiments and courses in biology, chemistry, physics and computer science for students and teachers, who successfully complement the school curriculum.



SCIENTIFIC SCHOOL IN CHEMISTRY AND BIOLOGY FOR SCHOOLCHILDREN

The educational program, that was opened in 2013, has already used by 54 students.

SCIENTIFIC SCHOOL IN CHEMISTRY AND BIOLOGY FOR TEACHERS

Since the event's existence, 48 teachers have attended science school under the leadership of Nobel laureate Erwin Neher.





TOGETHER WITH “ARGONNE NATIONAL LABORATORY”



ACCORDING TO THE RESULTS OF THE ANL TALKS AND THE JASU PRESIDENT MR. DOVGYI, IN 2019 THE FIRST ANL SUMMER SCHOOL FOR SCHOOLCHILDREN WAS ORGANIZED. SCHOOL PROVIDED SCIENTIFIC-EDUCATIONAL PROGRAM AND VISITS TO ALL THE ANL KEY SCIENCE MUSEUMS IN CHICAGO.

The organization of the arrival of a group of scientists and teachers to the course for two weeks was also discussed, subject to the formation of the «STA US-Ukraine» working group.



SCIENTIFIC SCHOOL FOR JASU STUDENTS MEANS

- Visit the Argonne National Laboratory Museum;
- Presentation of projects to laboratory scientists;
- Visit the supercomputer “MIRA”;
- Visit the “APS” accelerator and the laboratories around it.

SCIENTIFIC SCHOOL FOR TEACHERS MEANS

The program is supported by the US Embassy in Ukraine and 20 teachers have already tried its capabilities.



INTERNATIONAL SUMMER SEMINAR BY METHOD “PHILOSOPHY FOR CHILDREN” TOGETHER WITH INSTITUTE FOR THE ADVANCEMENT OF PHILOSOPHY FOR CHILDREN



Deepening knowledge on the Philosophy for Children methodology and training skills in conducting Socratic dialogue, as well as establishing cooperation with leading world experts on the Philosophy for Children

program, Became the main topics of the international summer seminar of the Junior Academy of Sciences of Ukraine and the Advancement of Philosophy for Children's in the New Jersey state.



INTERNATIONAL CONFERENCE TOGETHER WITH THE “PHILOSOPHY FOR CHILDREN” CENTER, UNIVERSITY OF GRAZ



In order to promote philosophy among young people and children, JASU actively studies and implements the best foreign practices of teaching philosophy for children.

As part of this activity, a joint conference was held in 2019 with the University of Graz on “Responsibility for the Future: New Philosophical Foundations of Peace and Justice.

INTERNATIONAL EXHIBITION “INTERGEO”



“INTERGEO” IS A LEADING INTERNATIONAL EXHIBITION IN GEODESY, GEOINFORMATION AND LAND ADMINISTRATION. MORE THAN 16 THOUSAND VISITORS FROM 92 COUNTRIES ARE EXPECTED THIS YEAR.

“INTERGEO” covers a wide range of industries: from geodesy, geoinformation, remote sensing and photogrammetry to additional solutions and technologies. The development, use, and analysis of geodata is a very interesting and dynamic field. And the relevant decisions are presented and discussed by experts at INTERGEO. Moreover, INTERGEO is an ideal platform for innovative industries enjoying dynamic growth.

EDUCATIONAL-SCIENTIFIC VISITS TO GEORGE WASHINGTON UNIVERSITY



Thanks to the assistance of Embassy of Ukraine in the USA and adviser Yegor Dubinsky, the Ukrainian delegation of JASU had the opportunity to visit NanoLab and Microscopia at George Washington University and listen to

lectures there, meet with Nobel laureate born in Ukrainian Yevhen Zenon-Stakhiv, and “U.S. – Ukraine Foundation”. The Library of Congress, the Capitol, the Smithsonian Museum was a great addition to the official program.





INTERNATIONAL SCHOOL IN CULTURAL DIPLOMACY



INTERNATIONAL SCHOOL IN CULTURAL DIPLOMACY, OPENED IN 2017, AIMED AT THE FORMATION OF A VALUE-IDEOLOGICAL COMPETENCY OF PERSONALITY, ACQUAINTANCE OF PARTICIPANTS WITH POLISH CULTURAL HERITAGE AND IMPROVEMENT OF INTERCULTURAL DIALOGUE SKILLS.



DURING THE EXISTENCE OF THE PROGRAM, 4 SCHOOLS WERE ORGANIZED, WHICH WERE ATTENDED BY 88 STUDENTS OF JASU

During school, children visited:

- Faculty of History of the Jagiellonian University in the ancient aul "Collegium Novus";
- Museum of the Jagiellonian University;
- Wawel Castle;
- Exhibition "Architecture of Independence in Central Europe";
- Museum "Schindler's Factory";
- Jewish Culture Center "Judaica".



INTERNATIONAL SUMMER CAMP "SUN CHINGLIN" IN CHINA



THE OFFICIAL PROGRAM WITHIN THE FRAMEWORK OF COOPERATION WITH THE EMBASSY OF THE PRC IN UKRAINE OPENED IN 2013, AND DURING ITS EXISTENCE, 3 SUMMER CAMPS WERE HELD.





INTERNATIONAL SCHOOL IN BIOLOGY BASED ON THE **BIOCEN** LABORATORY



SINCE 2017, 2 SCHOOLS
WERE HELD **WITH 75 YOUNG
PARTICIPANTS**

The International School in Biology for students of primary and secondary school age of the Children's Academy of JASU "Futurum", based on Center for Innovative Biological Education "BioCEN", is a unique chance to learn about modern scientific achievements of scientists from Europe, to take part in classes and workshops with the best specialists of the laboratory.



CONFERENCE "QUESTIONS IN SCIENCE" TOGETHER WITH THE **STEM-CENTER** OF UNIVERSITY OF YORK



A joint conference of JASU and York University was aimed at gaining knowledge on the use of the methodology "Philosophy for children" in STEM-education, as well as establishing cooperation with leading world

Experts on the program "Philosophy for Children".

Based on the results of the conference, training was held on "Interdisciplinary approaches in STEM education" for Ukrainian teachers.





SCIENTIFIC VISIT TO "NASA"



In the framework of the unique cooperation of JASU with the NASA Space Agency, the Ukrainian participants of the Genius Olympiad had the opportunity to discuss the possibility of sending their experiment into space, learn

about the peculiarities of space research from the head of the ISS scientific programs, and also get acquainted with three key space research companies – "Alpha Space", "NanoRacks", "Staars".



VISIT THE HEAD OFFICE OF GOOGLE



Thanks to the successes and victories of JASU graduates, the young generation of educational diplomats have an increasingly wide range of unique opportunities. So, thanks to the successful internship of one of the graduates of the JASU and prize-winners of the "Genius Olympiad 2018", Ukrainian students were able to visit the head office of Google Inc. in London.





INTERNATIONAL SCIENTIFIC AND PRACTICAL SCHOOL IN CHEMISTRY AND BIOLOGY FOR SCHOOLCHILDREN BASED ON FRANCIS CRICK INSTITUTE LEAD BY SIR PAUL NURSE

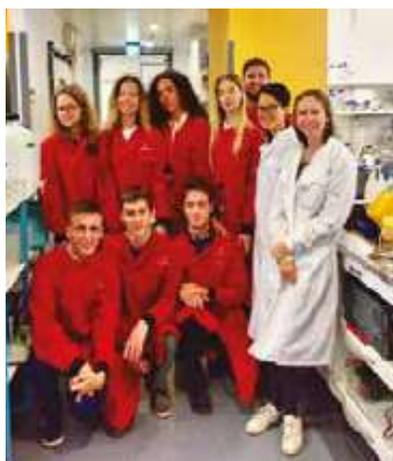


IN 2019, AN INTERNATIONAL SCIENTIFIC AND PRACTICAL SCHOOL ON CHEMISTRY AND BIOLOGY FOR SCHOOLCHILDREN ON THE FRANCIS CRICK INSTITUTE BASIS WAS HELD, THE DIRECTOR OF WHICH IS THE 2001 NOBEL PRIZE IN PHYSIOLOGY AND MEDICINE – SIR PAUL NURSE.

This project was a logical continuation of the cooperation of the JASU with Sir Paul Nurse after his visit to Ukraine in December 2018 as part of the project. “Lectures of the Future”.

During the school, participants had the opportunities to:

- Visit the laboratories of the largest research center in Europe “Francis Crick Institute”;
- Take part in discussion with leading scientists of the institute;
- Perform a laboratory experiment;
- Pass an interactive medical quest (Escape the lab with CRUK – Discovery Lab);
- Listen to a question and answer session with Sir Paul Nurse.



3



JASU
Special
Awards



“INTEL ISEF 2018”



JASU HAS BECOME THE ONLY EUROPEAN ORGANIZATION WHO WAS RECEIVED THE HONOUR TO HAND OUT A SPECIAL AWARD FOR THE INTEL ISEF 2018 COMPETITION.

The jury from Ukraine included: JASU President S. DOVHYI, leading scientists of the Argonne National Laboratory Olena and Igor Bodnar, Deputy Director for International Affairs Yevhen Kudriavets. The laureates of the JASU prize became:



1 place – Ghana, Gianna Nana Ama Boadi Torpey and William Thibaud Manirakiza;



2 place – Ukraine, Solomiya Leno;



3 place – Azerbaijan, Adnan Bunyatov and Aliagha Abdullayev;



4 place – Ukraine, Julia Suprun;



5 place – Ukraine, Dmytro Dmytriev.





“INTEL ISEF 2019”

For the second time, JASU presented special awards to Intel ISEF finalists, whose projects were aligned with 17 UN Sustainable Development Goals. This year, the Ukrainian jury determined the following winners:



1 place – Kenya, Esther Anyanzwa and Salome Njeri;



2 place – UAE, Dhahi Al Hosani, Reem Alhajari, Almerna Almarzooqi;



3 place – Ukraine, Olga Harasahal;



4 place – Kuwait, Dana Alkandari;



5 place – Ukraine, Nazar Ponochevny.

Each winner also received a certificate, a medal and an invitation to the next International Competition in Ukraine.



CHINESE SCIENTIFIC AND TECHNOLOGICAL INNOVATIVE COMPETITION “CASTIC” “UNESCO CENTER LANDAU SPECIAL AWARD”



THE TRADITION OF PRESENTING SPECIAL PRIZES TO INTERNATIONAL ORGANIZATIONS IS ALSO POPULAR AT THE MOST PRESTIGIOUS AND LARGEST SCIENTIFIC COMPETITION OF ASIA “CASTIC”. THIS YEAR ONE OF THE SUCH ELECTED ORGANIZATIONS BECAME JASU.

The director of JASU, Vice-President of the International Committee on Science Educational under the “Belt and Road” initiative O. Lisovyi presented the awards to participants from China, Turkey, and Tunisia.

O. Lisovyi together with Y. Kudriavets, Deputy Director for International Affairs, fulfilled the Honorary Mission of the Bronze Prize Winner of the Contest.





4

Education
and communication
tours



Representative events and educational-communicational tours contribute to establish long-term relationships with strategic partners of the JASU from around the world, thereby strengthening the social capital of the domestic system of education and science, creating new opportunities for Ukrainian schoolchildren and teachers.



**UNESCO
EXECUTIVE BOARD**



**WORLD SCIENCE
FORUM**



**MILSET EXECUTIVE
COMMITTEE**



**FORUM FOR
SCIENTIFIC
EDUCATION
DURING "TEENAGER
MAKER CAMP
AND TEACHER
WORKSHOP"**



**Annual Conferences
"ASTC"
(INTERNATIONAL
ASSOCIATION
OF SCIENTIFIC
CENTERS)**



**EUROPEAN
CONFERENCE
OF SCIENTIFIC AND
TECHNOLOGICAL
CENTERS "ESCITE"**



**FORUM FOR
STUDENTS
AND TEACHERS
WITHIN THE TOPIC
OF MEMBERS
COUNTRIES CERN**



**YOUNG OPENER
CLUB FORUM**



**INTERNATIONAL
FORUM OF
FINANCIAL
MUSEUMS**



**WORLD
SUMMIT FOR
TALENTED AND
GIFTED CHILDREN**

Thanks to active representative and communication activities, the JASU partner network already covers 5 continents and 35 countries of the world, and negotiations resulted in participation in new educational and scientific events, worldwide movements and the development of museum pedagogy in Ukraine.



**WORLD SUMMIT
EDUCATIONAL
CENTERS**



**CERN
BOARD MEETING**



**FORUM FOR
STUDENTS AND
TEACHERS
ON GLOBAL
EDUCATION**



**CONFERENCE
"EUROPEAN
COUNCIL FOR
HIGH ABILITY"**



**EDUCATIONAL
TOUR
BY ASIA
AND NORTH
AMERICA**



**SCIENTIFIC PICNICS
OF POLISH RADIO
AND COPERNICUS
SCIENCE CENTRE**



**ANNUAL
SEMINAR
OF TEACHERS
OF UKRAINIAN
SCHOOLS IN THE
USA**



**WORKING GROUP
OF ISSUES OF
SCIENTIFIC
EDUCATION
OF THE
FEDERATION
OF EUROPEAN
ACADEMIES OF
SCIENCE
(SE ALLEA)**



**ANNUAL
CONVENTION
OF THE US
SCHOOL COUNCIL
AT THE
UKRAINIAN
EDUCATIONAL
COUNCIL**



**MEETING
BRISEEC**



5

Representation
in international
organizations

REPRESENTATION OF THE JASU IN THE INTERNATIONAL ORGANIZATIONS

PROMOTES A BETTER UNDERSTANDING OF EDUCATIONAL, SCIENTIFIC AND INNOVATIVE TRENDS IN THE WORLD, STRENGTHENS THE POSITIVE POSITIONING OF UKRAINE IN THE SCIENTIFIC AND EDUCATIONAL FILEDS



STANISLAV DOVHYI

- > Vice President of European Academy of Sciences and Arts
- > Member of the Committee on the UNESCO Scientific Committee
- > Member of the EU Science Education Working Group Committee



OKSEN LISOVYI

- > Vice President of Belt and Road International Science Education Coordinating Committee



YEVHEN KUDRIAVETS

- > Advisor at CERN Council
- > MILSET Europe Executive Committee Member
- > Network Ambassador of New York University Network



International events in Ukraine



EUROPEAN GIRLS' MATHEMATICAL OLYMPIAD "EGMO-2019"

A GREAT EDUCATIONAL COMPETITION OF INTERNATIONAL VALUES – **EUROPEAN GIRLS' MATHEMATICAL OLYMPIAD (EGMO)** THIS YEAR WAS HELD IN KYIV WITH SUPPORT OF THE MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE TOGETHER WITH JASU AND TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV.

While the first Olympiad in Cambridge in 2012 gathered only 70 girls from 19 countries, this year Kyiv hospitably received 49 delegations with 196 contestants

Conducting EGMO in Ukraine thanks to the successful participation of Ukrainian girls in the Olympiads. So for 7 years of its existence, Ukrainians three times became the best team in team competition in the official classification, and three of the participants received the first absolute individual victories. So far, any country has been able to repeat such high results.

**THE TEAM RESULT OF THE
UKRAINIAN TEAM BECAME
THE BEST IN 2019.**

This year two Ukrainian teams took part in the mathematical race at once, so the Ukrainians needed to cheer for their team twice as much:



3 gold medals



4 bronze medals



1 special
award





Not only European countries can take part in the competition. Representatives from the USA, Japan, Mexico, Australia, Canada, Chile, Brazil, Saudi Arabia, India and many others came to Ukraine.

Previous EGMOs took place in UK, Luxemburg, Turkey, Belarus, Romania, Switzerland and Italy. In Ukraine, the Olympiad of this level is for the first time. This is another opportunity to be proud of our country and sincerely support its talented and intelligent youth, which has plenty of opportunities to make our future a happy one.

This year, two Ukrainian teams took part in the mathematical race at once, therefore, their Ukrainian needed to be extra supportive. One of the teams included Olesya Bilyk, Ekaterina Gorokh, Karina Nechiporuk, Vlad Petrusenko, and the other – Alisa Baklan, Margarita Baklan, Roksolana Ivanchuk and Olga Zhur.

With an absolute result, the participant from Serbia, Elena Ivanic went home, who received the maximum possible number of points – 42.

In general, according to the results of the Olympiad, girls from different parts of the world shared 19 gold medals, 37 silver, and 56 bronze.



INTERNATIONAL SUMMER SCHOOL FROM REMOTE SENSING OF THE EARTH

WITHIN THE FRAMEWORK OF THE ACTIVITIES OF THE **COPERNICUS ACADEMY 2019**, THE INTERNATIONAL SUMMER SCHOOL HAS BEEN TAKEN WITH **REMOTE SENSING OF THE EARTH** ON THE BASIS RESORT HOTEL "KVELLE POLYANA" IN THE TRANSCARPATIAN REGION, THE **PURPOSE OF WHICH WAS TO DEVELOP WORK SKILLS OPEN SATELLITE DATA AND USE REMOTE SENSING DATA FOR SCIENTIFIC RESEARCH.**



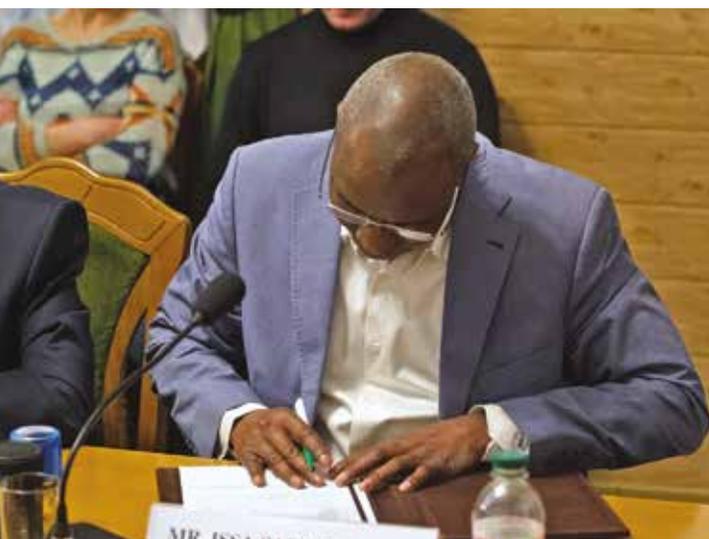
The school was attended by 16 students – members of JASU and online broadcast of the lectures and practical work was organized for students from Kenya, India, Slovakia, and Poland.

As a result, the student teams conducted 4 scientific studies based on the gained knowledge. Themes of work: "Changing the coastline of glaciers", "Status and prospects for the development of solar energy in Ukraine", "Analysis of the activity of Etna volcano according to remote sensing materials", "Study of the problem of flowering water in the reservoirs of the Dnipro cascade".





THE AFRICAN COUNCIL IN UKRAINE



COLLABORATION WITH **THE UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION (UNESCO)** IS A STRATEGIC OBJECTIVE IN DEVELOPING SCIENTIFIC AND EDUCATIONAL OPPORTUNITIES FOR UKRAINE.



In the framework of cooperation between the JASU and the European Junior Academy of Science and the African Council in Ukraine, a memorandum of understanding was signed in 2017.

Cooperation included:

- Cooperation in science, technology, engineering and mathematical education (STEM);
- Organization and participation in joint conferences, schools, and seminars;
- Official visits of the delegations of JASU and EuroJAS to African partner countries;
- Preparation of a report with recommendations for reforming the educational system.





GRAND FINAL OF UKRAINIAN OLYMPIAD IN CREATIVITY “DESTINATION IMAGINATION” (DI)

AS PART OF THE IMPLEMENTATION OF THE INTERNATIONAL EDUCATIONAL CREATIVITY PROGRAM “DESTINATION IMAGINATION” AND THE SELECTION OF PARTICIPANTS FOR THE GLOBAL FINALS, JASU ORGANIZED THE **FIRST GRAND FINAL OF UKRAINIAN CREATIVITY OLYMPIAD “DESTINATION IMAGINATION” (DI).**



The Ukrainian selection was helped by experts from the Foundation for the Support and Development of Creativity and program representatives in Poland.

Participants competed in three age levels in various challenges:

- I Up to 12 years;
- II Up to 15 years – **“O.K.O” team** (Artistic Challenge);
- III Up to 19 years – **“Tumbleweed” team** (Community Challenge), **“BrainStorm”** (Improvisation Challenge), **“Change reality”** (Artistic Challenge).



The Special Renaissance Award for an effective and sophisticated theatrical smartphone model was awarded by the Expert Commission to the UCCU team from Kyiv (3rd-age level). All winners of the Ukrainian selections have won the right to defend the honor of Ukraine at the Global Final of the Creative Olympiad in Kansas City (USA).





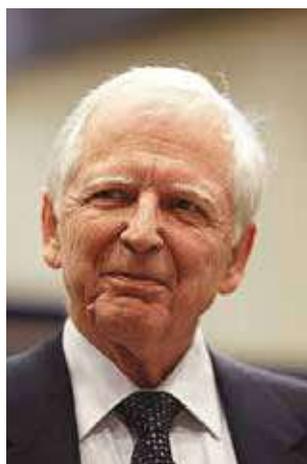
JOINT PROJECT WITH A PUBLIC UNION “EUROJAS” “LECTURES OF THE FUTURE”



SIR PAUL NURSE

➤ Nobel Laureate in Medicine and Physiology in 2001 – the United Kingdom

In addition to a lecture for students, Sir Nurse participated in the official opening ceremony of the Sikorsky Challenge, visited Grand Final of the Ukrainian exhibition “The Future of Ukraine” and the National Academy of Sciences of Ukraine.



HAZARD ZUR HAUSEN

➤ Nobel Laureate in Medicine and Physiology in 2008 – Germany

Harald zur Hausen’s visit included an open lecture, a visit to the National Academy of Sciences, and a meeting with B. Paton, participation in the Dragomanov Doctor Honoris Causa in National Academy of Science of Ukraine.



OVER THE **3 YEARS** OF THE PROJECT'S EXPERIENCE,
20 VISITS OF THE MOST KNOWN SCIENTISTS OF MODERNITY
WERE ORGANIZED, INCLUDING **4 NOBEL LAUREATES**, MEETINGS
WERE ATTENDED BY MORE THAN **12 000 STUDENTS**.



KAJITA TAKAAKI

➤ Nobel Laureate in Physics
in 2015 – Japan

During the visit, Takaaki Kajita attended the opening ceremony of the Grand Final of Ukrainian Olympiad in creativity "Destination Imagination", and also received Doctor Honoris Causa at the National Academy of Sciences of Ukraine.



JULES A. HOFFMANN

➤ Nobel Laureate in Medicine and Physiology
in 2011 – France

Jules A. Hoffmann took part in the operating ceremony of the Grand Final of Science Project Competition, have read a lecture on cytology and motivational report for young scientists.

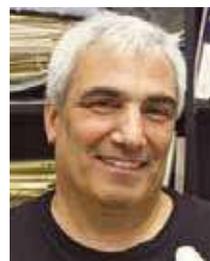




ROLF-DIETER HEUER
CERN director



CHRISTINE SCHÄFER
CERN director adviser



GAL RICHTER-LEVIN
The world-famous
neuroscientist – Israel



SINDY LAWRENCE
Director of the Museum
of Mathematic in New
York – USA



TIM NISSEN
Deputy Director of the
Museum of Mathematic
in New York – USA



SVITLANA KHUTKA
Professor of Stanford
University – USA



OLENA BODNAR
Leading scientist at
"Argonne Lab" – USA



YUIRY PANCHUL
Santa Clara Technology
Engineer – USA



LAM KHIN YONG
Vice President
(Research) at Nanyang
Technological
University, Singapore



CARLOS ALVARES
Head of ICANN
Corporation – Netherlands



ADAM PEAK
ICANN Corporation
Expert – Netherlands



KATERINA RUDENKO
The world-famous
business coach – Israel



DANIEL RAPOPORT
PR expert – Israel



NATALIA MAZOR
The world-famous
business coach – Israel



SECILLE SOMMERS
Futurist, books
author – USA



ABDERRAZAK EL ALBANI
The world-famous
geologist



NICOLE DECOSTER
Philosophy expert for
children – Belgium



**NICOLE LEMER
DAGADGIO**
Secretary-General of
the European Academy
of Science, Arts, and
Literature – France



ISABEL JASPERS
Philosophy expert for
children – Belgium



TOMOMI OKADA
Japanese inventor



ATSUMA HAMA
Japanese inventor



Cooperation with Ukrainian Diaspora

COOPERATION WITH UKRAINIAN REPRESENTATIVES OF THE UKRAINIAN DIASPORA
IT'S A **PRIORITY STRATEGIC TASK** FOR THE JAS, BECAUSE, CAUSING SYNERGY
OF POTENTIALS, SUCH COOPERATION REVEALS **MANY OPPORTUNITIES** AS FOR
UKRAININ **SCHOOLCHILDREN ABROAD** AND VISE VERSA.



JASU has already started cooperation with the **Schools Board of the Ukrainian Congressional Committee of America**, proposing to the Ukrainian Diaspora a number of projects that will help to improve the methodological support of Ukrainian schools in the United States, create new programs for young foreign Ukrainians.

Within the framework of the Annual Seminar of the School Board, the new law on language and the new Ukrainian spelling were introduced, the pages of history in the 20th century were discussed, integrated classes on geography and culture were held, as well as a visit to the Chortkiv Offensive, sponsored by the School Board.





SIMILAR **COOPERATION PROJECTS** AND JOINT VISITS, THE JASU PLANS TO ORGANIZE **WITH REPRESENTATIVES OF THE UKRAINIAN DIASPORA** IN OTHER COUNTRIES AND CONTINENTS AND **DIPLOMATIC MISSIONS** OF UKRAINE IN THE WORLD.



COOPERATION WITH
THE DIASPORA



EMBASSY OF UKRAINE
IN TURKEY
CONSULATE GENERAL
OF UKRAINE IN ISTAMBUL



COOPERATION WITH
THE DIASPORA



COOPERATION WITH
THE DIASPORA



PERMANENT MISSION OF
UKRAINE TO INTERNATIONAL
ORGANIZATIONS IN GENEVA
EMBASSY OF UKRAINE IN
SWITZERLAND



COOPERATION WITH
THE DIASPORA



EMBASSY OF UKRAINE
IN SINGAPORE



COOPERATION WITH THE
DIASPORA EMBASSY OF
UKRAINE IN FRANCE



EMBASSY OF UKRAINE
IN ROMANIA



COOPERATION WITH THE
DIASPORA EMBASSY OF
UKRAINE IN POLAND



9

Affiliate
network







10

Global
projects for the
future

THE STRATEGIC JASU DEVELOPMENT PLAN 2020–2025



ORGANIZATION OF INTERNATIONAL WORLD LEVEL EVENTS IN UKRAINE



the International Astronomy
Olympiad "IAO 2021"



International Scientific
Exhibition
"MILSET 2022"



International Junior
Scientific Olympiad
"IJSO 2022"



International Conference of
Young Scientists
"ICYS 2025"



International
Mathematical
Olympiad 2024



INTERNATIONAL SCIENTIFIC YOUTH CAMP IN UKRAINE – 2020

Each year will bring together 2 participants from the partner countries of JASU, whose participation will be confirmed by a special certificate. The topic of the competition will change, covering each year new topics related

to the UN Sustainable Development Goals and the current stage of Ukraine's development. The camp will be organized under the auspices UNESCO, several host countries, including Ukraine.



EXPANDING GEOGRAPHY OF PARTICIPATION IN WELL-RECOGNIZED COMPETITION AND EXHIBITIONS

International Young Inventors Awards



International Warsaw Invention Show



India International Invention Fair (IIIF)



International Innovation Exhibition ARCA



Seoul International Invention Fair



IIDC Hong Kong International Invention & Design Competition



Macau International Innovation & Invention Expo (MIIE)



International Trade Fair for Ideas, Inventions, and New Products



International Geography Bee



Ontario Science Center





EXPANDING GEOGRAPHY OF PARTICIPATION IN WELL-RECOGNIZED **COMPETITION AND EXHIBITIONS**

Space School in **China**
CASTM



International Exhibition
EXPO 2020 Dubai



European Innovative
Show **INOVA**



Interactive Museum
of economics



School of Robotics in
Science Club Emirates
2020



The International
History Bee and Bowl



Edinburgh International
Science Festival 2020



School in University
of **George Washington**
i NASA 2020



World Science
Festival 2020





MUSEUM OF SCIENCE 2017–2020

Within the framework of realization of the concept of creation of interactive Museum of Science and development of museum pedagogy in the system of extracurricular education in Ukraine, representatives of JASU have visited **247** of the most famous scientific

centers and specialized organizations, visited and established professional connections with **120** museums in **35** countries of the world and took part in thematic conferences on the development of scientific centers and museum work.

INTERNATIONAL CONFERENCE OF SCIENTIFIC CENTERS **ASTC**

2017 2018 2019 2020

A global platform of scientific centers for professional support and creation of scientific centers, museums..



EUROPEAN CONFERENCE OF SCIENTIFIC AND TECHNOLOGICAL CENTERS **ECSITE**

2019 2020

It unites more than 350 organizations that inspire scientific activity and promote dialogue between science and society.



SCIENCE CENTER WORLD SUMMIT "SCWS"

2017 2020

Global meeting of experts of scientific centers/museums and their network around the world, that takes place every three years.



ASIAN-PACIFIC NETWORK OF SCIENTIFIC AND TECHNOLOGICAL CENTERS **ASPAC**

2020

Association of research centers, museums, and related organizations with a regional focus on the Asia-Pacific region.



A SEPARATE AREA OF THE JAS ACTIVITIES IN THE DEVELOPMENT OF MUSEUM
PEDAGOGY IN THE CONCLUSION OF MEMORANDUMS OF LONG-TERM COOPERATION
ON THE WAY TO OPEN A CENTER OF SCIENCE IN KYIV.



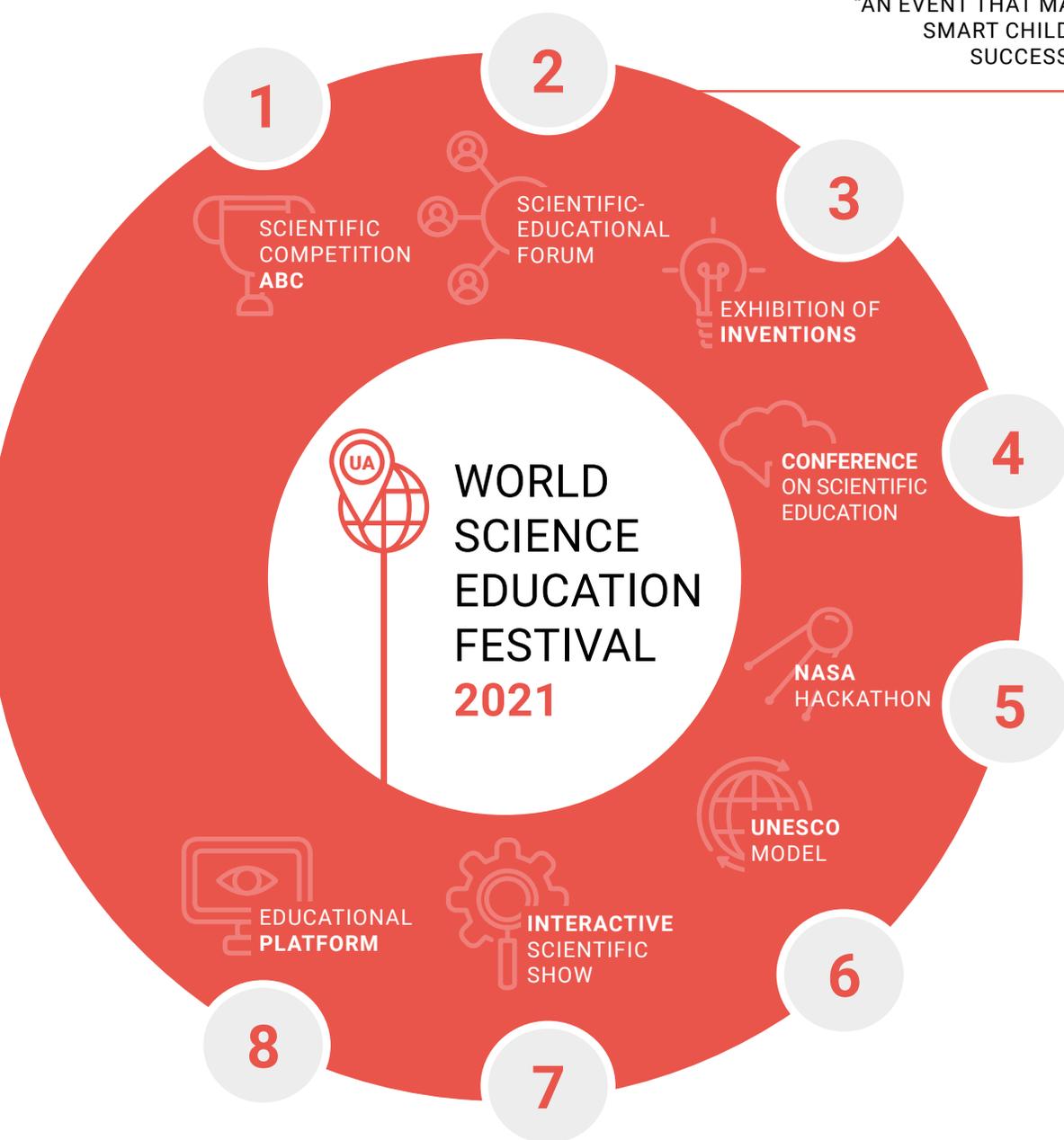
In particular, a **Memorandum of Cooperation** was signed with the **Interactive Museum of Economics of Mexico "MIDE"**, a unique center that is ready to provide knowledge and technology for creating a permanent economic exhibition at the Museum of Sciences, and subsequently the

opening of a separate Museum of Economics in Ukraine.

There is also active cooperation with the Ontario Science Center, the Museum of Mathematics in the USA, the Center for Aviation and Space of Canada, Children's Museums in the USA, and the Smithsonian Institute.



“AN EVENT THAT MAKES
SMART CHILDREN
SUCCESSFUL”



ONE OF THE MAJOR PERSPECTIVE OF JASU PROJECT IS THE CREATION OF A **GLOBAL SCIENTIFIC AND EDUCATIONAL FESTIVAL UNDER THE AUSPICES OF UNESCO**, THAT WILL BRING TOGETHER YOUNG INVENTORS, INNOVATORS, TEACHERS, SCIENTISTS, EDUCATORS, MINISTERS, BUSINESS REPRESENTATIVES AND WILL CONTRIBUTE TO STRENGTHENING THE POSITION OF UKRAINE IN THE INTERNATIONAL EDUCATIONAL FILED.

UN ► UNESCO ► THE GOVERNMENTS OF THE STATES ► LEADING EDUCATIONAL INSTITUTIONS AND DIASPORA

THE IDEOLOGICAL FOUNDATION OF WORLD SCIENCE EDUCATION FESTIVAL 2021



- **Founders**
 Ukraine, UNESCO, and international partner countries
- **National organizers**
 Leading institutions in the field of education and science in the founding countries
- **Event**
 International Convention for the Establishment of a Global Educational and Scientific Festival
- **The international composition of the board**
 The festival's governing center, ministers and opinion leaders
- **Festival Executive Committee**
 Organizing Committee of JASU

STAKEHOLDERS AND INSTITUTIONS

- The event under the auspices of UNESCO, will meet the UN Sustainable Development Goals, promote the development of science, education, and innovation in Eastern Europe.
- Strengthening the positioning of Ukraine in the international space as an innovative country, increasing the recognition of the national brand of Ukraine and improving the investment climate.
- The possibility of foreign government representatives to establish a strategic partnership with Ukraine and representatives of other states.
- Establishment of communication and partnership relations with foreign diplomatic agencies for the implementation of strategic projects in the field of education and science.
- Research of educational and scientific potential of Ukraine, analysis of innovative and investment environment of Ukraine.
- Establishment of intercultural and cooperation relations with thematic institutions of Ukraine.
- A platform for combining science, business, and government, establishing cooperative relations with foreign colleagues.
- Promotion of European values in Ukraine, and promotion development of education and science amongst young people.
- The implementation of one of the principles of international law – cooperation.
- The opportunity to present scientific achievements, new programs and internship to students, colleagues and investors from around the world,
- A platform to demonstrate their own innovations and inventions, the search for international partners for joint development.
- A chance to join the global network of young scientists involved in the researches.
- Search for promising start-ups for successful investment in the future.
- Experience of participating in a large-scale project, the search for strategic partners, inclusion in the global scientific and educational network





INTERNATIONAL SCIENTIFIC **COMPETITION**

FIRST UNIQUE INTERNATIONAL COMPETITION, FOUNDED BY THE JASU AS THE 2ND CATEGORY UNESCO CENTER IN CONJUNCTION WITH THE MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE AND THE MINISTRY OF FOREIGN AFFAIRS OF UKRAINE



UNESCO
competition



20 000
participants
in national
selections



25
participating
countries in the first
year of competition



Participants from
10 to 40
POKIB



THE LARGEST
team of
volunteers



1000
finalists from all
over the world



Compliance with
UNSUSTAINABLE
GOALS AND
UNESCO GOALS



10
founding countries





Compliance with the UN Sustainable Goals and UNESCO in three dimensions at once: economic, environmental and social contribution to the positioning of Ukraine as an innovative country with strong intellectual capital, and JASU as a center for the development of world-class science education.

The ideological basis of the competition will be the platform of Educational Diplomacy of Ukraine, which synergistically brings together educators, scientists and innovative youth in Ukraine and abroad, international partners from around the world, as well as Ukrainians outside the homeland.

SEPARATE

NOMINATIONS:

- "Schools science";
- "Student science";
- "Youth Science";

- Representatives of Ukrainian diaspora;
- Projects with registered intellectual property.



INTERNATIONAL EDUCATIONAL FORUM

A COMMUNICATION PLATFORM THAT WILL OPERATE AS PART OF THE **"WORLD SCIENCE EDUCATION FESTIVAL 2021"** AND WORK AS A COMMUNICATION LINK BETWEEN VARIOUS FESTIVALS.

The result of the platform will be a fundamentally new quality of interaction between agents.



EXHIBITION OF INVENTIONS

A significant opportunity for young scientists to demonstrate their own research, exchange views with foreign colleagues, and also find a potential investor to improve and commercialize their inventions and prototypes.

A demonstration of radical innovations, primarily by Ukrainians, will help improve the country's investment climate in the eyes of foreign investors, for whom human and social capital have become the primary criterion for choosing a potential investment object.





CONFERENCE IN SCIENCE EDUCATION “INTERNATIONAL SCIENCE EDUCATION CONFERENCE”

International science education conference will contribute to the development of scientific education amongst young people in Ukraine, that will be embodied in the logical education of a new generation of young scientists.

An important aspect of the conference may be the problem of the development of museum pedagogy as a necessary element of modern out-of-school education in the 21st

century that requires the use of interactive technologies.

Particular attention also requires analysis of the problem of protection of intellectual property rights, especially of young scientists, that is very important for Ukraine, due to the immaturity of the intellectual property market, which annually receives less than billions of foreign investments, worsening its place in all international ratings.



NASA HACKATHON

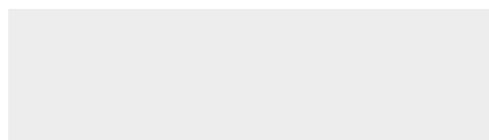
Ukrainian schoolchildren, together with participants of “SCIENCE EDUCATIONAL FESTIVAL” will be able to send their developments into space thanks to the unique cooperation between JASU and NASA. Now JASU is actively negotiating to organize a special hackathon and the best projects can be sent to space.

It is an incredible experience for both students from Ukraine and guests from all over the world to join space research, to offer their ideas and developments, that in the future will undoubtedly contribute to the development of aviation and astronautics.



UNESCO MODEL

The UN model now popular among young people at SCIENCE EDUCATIONAL FESTIVAL is being transformed into a UNESCO model, the center of which is JASU. The atmosphere of diplomatic corridors will help young scientists better understand the specifics of educational diplomacy and become full-fledged young diplomats in the international educational space.





INTERACTIVE SCIENTIFIC SHOW

Interactive science shows help to demonstrate the most diverse facets of science, make it interesting and exciting, that is extremely important in school education since future Nobel laureates need to be educated from the first lesson, to cherish a real love for scientific research in them.



EDUCATIONAL PLATFORM

An important element in the development of the modern world and education, in particular, is communication and social capital. The educational platform SCIENCE EDUCATION FESTIVAL is aimed at encouraging informal communication between teachers, scientists, inventors and initiative youth from all over the world, this is the unique chance to join international partner networks.



RESULTS OF THE WORLD SCIENCE EDUCATION FESTIVAL 2021

- Improving the international positioning of Ukraine;
- Roadshow festival;
- Volunteer program;
- Special affiliate system;
- interstate interaction;
- new program for the diaspora;
- advanced sponsorship program.



CONTACTS



Stanislav Dovhyi

President of the UNESCO Center

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