

29th International Conference of Young Scientists (ICYS)



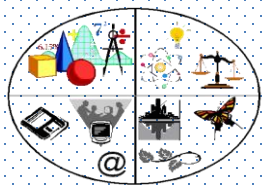
BOOKLET



1994, Visegrád, Hungary;
1995, Baranovichi, Belarus;
1996, Visegrád, Hungary;
1997, Baranovichi, Belarus;
1998, Visegrád, Hungary;
1999, Branovichi, Belarus;
2000, Nijmegen, The Netherlands;
2001, Katowice, Poland
2002, Kutaisi, Georgija,
2003, Prague, Czech Republic
2004, Nijmegen, The Netherlands
2005, Katowice, Poland;
2006, Stuttgart, Germany ;
2007, Saint-Petersburg, Russia;
2008, Chernivtsi, Ukraine;
2009 Pszczyna, Poland ;
2010, Bali, Indonesia ;
2011 Moscow, Russia ;
2012, Nijmegen, The Netherlands ;
2013, Bali, Indonesia ;
2014, Belgrade, Serbia ;
2015, Izmir, Turkey ;
2016, Cluj-Napoca, Romanija
2017, Stuttgart, Germany ;
2018, Belgrade, Serbia ;
2019, Kuala Lumpur, Malaysia
2020,
2021, Onlajn
2022, Onlajn



STEERING COMMITTEE OF ICYS



Hans Jordens
vice-president



Sergei Sergeev
president



Adelhaida Kerekes
vice-president



Monika Raharti
member



Urszula Woznikowska-Bezak
member



Leonid Markovich
member



Zsuzsanna Rajkovits
honorary president



Alexander Urban
member



DESCRIPTION AND MISSION OF THE ORGANIZER

Center for Talents emerged as a compelling necessity for guiding talented individuals in the fields of natural, technical, social and humanistic sciences. The Center serves the need for the development of domestic science, technological and other funds of knowledge based on our own research work and application of results-based national development programs in all work areas. This approach is imposed by modern international research and development, as well as market processes, and the global struggle for competitive products, services and knowledge.



Modern tendencies - maximum use of natural resources, compliance with the requirements of preservation and environmental protection, restructuring and modernization of the economy, rapid development of food production, energy, electronics, metallurgy, chemical industry, information technology - imposed the necessity of systematic detection, identification and stimulation of gifted individuals. In order to respond to current challenges of the modern education system and especially the implementation of the Programme of encouraging and training young researchers, the Center for Talents supports the work with gifted individuals in various scientific fields. The work of the Center is aimed at revealing and identifying talented individuals and, with the involvement of the scientists as teachers and mentors, providing gifted students with the conditions for their development in the scientific area of interest. Through implementation of the planned program assignments, Center for Talents strives to make a valuable contribution to the development and promotion of science through discovering talented children and supporting their engagement in scientific research.

LOC



Doc Dr Ivan Novkovic



Nevena Nekić



Mateja Opačić



Nikola Srzentić



Tamara Gojić



Ankica Dmitrovic

ROMANIA

INDONESIA

HUNGARY



SLOVENIA

BRAZIL

CZECH REPUBLIC

THAILAND

RUSSIA

IRAN

SERBIA

SCHEDULE

08. APRIL SUBOTA/SATURDAY

	Dolazak ARRIVAL	<i>Transfer from the airport to the hotel is provided</i>
	SMEŠTAJ ACCOMMODATION	<i>checking in at the reception, getting room keys.</i>
14.00 - 16.00	RUČAK LUNCH	
16.00 - 19.00	RADIONICA POSVEĆENA USKRSU WORKSHOP DEDICATED TO EASTER	<i>Collecting ID cards, Getting to know students, socializing, preparing decorations for Easter.</i>
19.00 - 20.30	VEČERA DINNER	
20.00	TIM LIDER SASTANAK TEAM LEADER MEETING	<i>cocktail party for TEAM LEADERS</i>

09. APRIL NEDELJA/SUNDAY

08.00 - 09.00	DORUČAK BREAKFAST	
09.30 - 14.00	OBILAZAK ZNAMENITOSTI BEOGRADA TOUR OF THE SIGHTS OF BELGRADE	<i>BOTANIČKA BAŠTA BOTANICAL GARDEN</i>
14.30 - 15.30	RUČAK LUNCH	
17:00	SVEČANO OTVARANJE OPENING CEREMONY	
18.30 - 20.30	VEČERA DINNER	
20:00	STIRLING COMMITTEE MEETING	

10. APRIL PONEDELJAK/MONDAY

08.00 - 09.00	DORUČAK BREAKFAST	
09.00 - 14.00	PREZENTACIJE PRESENTATIONS	
14.00 - 15.30	RUČAK LUNCH	
16.00 - 19.00	PREZENTACIJE PRESENTATIONS	
19.00 - 20.30	VEČERA DINNER	

11. APRIL UTORAK/TUESDAY

07.00 - 09.00	DORUČAK BREAKFAST	
09.30 - 13.00	OBILAZAK ZNAMENITOSTI BEOGRADA TOUR OF THE SIGHTS OF BELGRADE	AVALSKI TORANJ AVALA TOWER
13.00 - 14.30	RUČAK LUNCH	
16.00 - 18.00	POSTER PREZENTACIJE POSTER PRESENTATIONS	
19.00 - 20.30	VEČERA DINNER	

12. APRIL SREDA/WEDNESDAY

08.00 - 10.00	DORUČAK BREAKFAST	
10.00 - 12.00	OBILAZAK ZNAMENITOSTI BEOGRADA TOUR OF THE SIGHTS OF BELGRADE	NIKOLA TESLA MUSEUM
13.00 - 14.30	RUČAK LUNCH	
16.00 - 18.00	ŠETNJA BEOGRADOM WALKING THROUGH BELGRADE	KALEMEGDAN FORTRESS
19.00 - 20.30	VEČERA DINNER	
21.00 - 23.00	KULTURNI PERFORMANSI CULTURAL PERFORMANCES	

13. APRIL ČETVRTAK/THURSDAY

08.00 - 10.00	DORUČAK BREAKFAST	
11.00	SVEČANOST DODELE MEDALJA MEDAL AWARD CEREMONY	
13.00 - 14.30	RUČAK LUNCH	
15.00 - 19.00	POSETA TRŽNOM CENTRU VISIT TO THE SHOPPING MALL	<i>option to choose: shopping center, science and technology museum, city center,</i>
19.00 - 20.30	VEČERA DINNER	

14. APRIL PETAK/FRIDAY

08.00 - 10.00	DORUČAK / BREAKFAST	
	ODLASCI / DEPARTURES	<i>provided transfer from the hotel to the airport</i>

STUDENTS

	Indonesia	Teresa Azarel Gayatri Lamiang	<i>Environmental Science</i>
	Serbia	Anđela Zorić	<i>Environmental Science</i>
	Hungary	Bence Veres	<i>Environmental Science</i>
	Thailand	Nyanika Techasitsuebpong	<i>Environmental Science</i>
	Romania	Suciu Alexia Sofia	<i>Environmental Science</i>
	Czech Republic	Michala Malá	<i>Environmental Science</i>
	Hungary	Boglárka Gáspár	<i>Environmental Science</i>
	Romania	Rogozan Matei	<i>Environmental Science</i>
	Brazil	Bruno Kayser da Silva Machado	<i>Environmental Science</i>
	Indonesia	Dhavina Priskila Tjahjadi	<i>Environmental Science</i>
	Indonesia	Gabrielle Rochellin Susanto	<i>Environmental Science</i>
	Turkey	Nisa İltekin	<i>Environmental Science</i>
	Serbia	Teodora Kostic	<i>Environmental Science</i>
	Turkey	Ayşenur Bayer	<i>Environmental Science</i>
	Turkey	Ceren Yenideniz	<i>Environmental Science</i>
	Russia-Moscow	Vladislav Marchuk	<i>Engineering</i>
	Turkey	Eymen Kaykusuz	<i>Engineering</i>
	Slovenia	Maša Melinc	<i>Engineering</i>
	Brazil	Wanghley Soares Martins	<i>Engineering</i>
	Serbia	Mihajlo Ninkov	<i>Engineering</i>
	Russia-Moscow	Vladislav Biserov	<i>Computer Science</i>
	Russia-Moscow	Maxim Molostov	<i>Computer Science</i>
	Indonesia	Fiona Lee	<i>Computer Science</i>
	Indonesia	Veronica Jane Sudjana	<i>Computer Science</i>
	Serbia	Aleksandra Spasojević	<i>Computer Science</i>
	Romania	Neag Alexandru	<i>Computer Science</i>

STUDENTS

	Russia-Moscow	Stepan Kalugin	<i>Computer Science</i>
	Serbia	Rajko Lapcevic	<i>Computer Science</i>
	Thailand	Thee Mateepithaktham	<i>Computer Science</i>
	Russia-Moscow	Konstantin Korolev	<i>Computer Science</i>
	Serbia	Milan Mirčić	<i>Computer Science</i>
	Romania	Rednic Natalia	<i>Life Science</i>
	Romania	Zirbo Oana-Maria	<i>Life Science</i>
	Russia-Moscow	Sofia Kiseleva	<i>Life Science</i>
	Serbia	Dušan Marjanović	<i>Life Science</i>
	Hungary	Dóra Százvai	<i>Life Science</i>
	Romania	Rus Maria Cassandra	<i>Life Science</i>
	Romania	Bledea Iulia	<i>Life Science</i>
	Russia-Moscow	Darya Zykova	<i>Life Science</i>
	Czech Republic	Štěpán Boudyš	<i>Life Science</i>
	Romania	Lotrean Darius	<i>Life Science</i>
	Russia-Moscow	Anton Fetisov	<i>Life Science</i>
	Brazil	João Pedro Silvestre Armani	<i>Life Science</i>
	Slovenia	Neja Štampar	<i>Life Science</i>
	Serbia	Lena Vračević	<i>Life Science</i>
	Russia-Moscow	Anastasiia Zhukova	<i>Life Science</i>
	Serbia	Aleksandra Letić	<i>Life Science</i>
	Russia - St Petersburg	Pavel Fedorov	<i>Mathematics</i>
	Indonesia	Jason Mikael Dihadja	<i>Mathematics</i>
	Czech Republic	Vojtěch Belada	<i>Mathematics</i>
	Russia - St Petersburg	Aleksandr Krasilnikov	<i>Mathematics</i>
	Brazil	Victória Leal Altmayer Silva	<i>Mathematics</i>
	Serbia	Roman Maksimovich	<i>Mathematics</i>

STUDENTS

	Russia - St Petersburg	Ilia Grishchenko	<i>Mathematics</i>
	Serbia	Milica Tomić	<i>Physics</i>
	Slovenia	Žiga Vaupotič	<i>Physics</i>
	Slovenia	Tian Vesel	<i>Physics</i>
	Hungary	Dániel Grosser	<i>Physics,</i>
	Brazil	Anny Gabriela Marçal de Carvalho Araújo	<i>Physics,</i>
	Thailand	Natatpong Sakmaneevongsa	<i>Physics</i>
	Hungary	Gergely Péter Vári	<i>Physics,</i>
	Serbia	Mila Mihajlović	<i>Physics</i>
	Hungary	Zsombor Gál-Knapcsek	<i>Physics,</i>

	NUMBER OF PRESENTATIONS
ENGINEERING	7
PHYSICS	8
MATHEMATICS	8
COMPUTER SCIENCES	9
ENVIRONMENTAL SCIENCE	14
LIFE SCIENCE	14

JURY

ENVIRONMENTAL SCIENCE

Alexander Urban	Germany
Kirchkeszner Csaba	Hungary
Boar Felicia	Romania
Sanja Živković	Serbia

LIFE SCIENCE

Adelhaida Kerekes	Romania
Marija Pavlović	Serbia
Cansu İlke Kuru	TURKEY
Marinela Šokarda Slavić	Serbia

MATHEMATICS

Boris Zolotov	Russia - St Petersburg
AMARISA CHANTANASIRI	THAILAND
Dr. Gülseren COŞKUN	TURKEY
Nikolina Markovic	Serbia
Matija Ćupić	Serbia

PHYSICS/ENGINEERING

Sergei Sergeev	Russia-Moscow team
Zsuzsanna Rajkovits	Hungary
Kristina Protić	Serbia

COMPUTER SCIENCE

Mateja Opačić	Serbia
Dmitry Shtukenberg	Russia-Moscow team
Antonius Malem Barus	Indonesia

"Jevremovac" Arboretum (Botanic Gardens)

"Jevremovac" Arboretum is the unit of the Faculty of Biology of the University of Belgrade. Founded in 1874 by the decree of the Ministry of Education of the Kingdom of Serbia, at the suggestion of Mr. Josif Pančić, its first manager thereafter. In the year 1889, the King Milan Obrenović donated the estate (inherited from his grandfather named Jevrem) to the Great School in Belgrade for the purpose of construction of Botanic Garden, provided it is named "Jevremovac". It exists to this day at the same location and under the same name.

The Arboretum spreads over the area of 5 hectares, where on an open space there are over 250 species of trees and bushes, local, European and exotic plants, and the total plant population now includes about 500 trees, bushes and herbage plants. Besides the open space, the Arboretum covers the Green house and the Institute for Botanic premises. (administrative building, herbarium, library, lecture hall, laboratories).

The green house, built in 1892, covers the area of 500 m². At the time of its construction it was one of the biggest and most beautiful green houses in this part of Europe. Numerous tropic and sub-tropic plants are being nursed, some of which worth mentioning are: Phoenix Canariensis, Chamaerops Humilis, Cereus Peruvianus...

The Herbarium accommodates rich collection of plants originating from the Balkan peninsula and the entire Europe containing around 120,000 herbarium sheets and over 300,000 exsiccates. The library is one of the oldest and the most abundant one in this area. Apart from 200 scientific and professional magazines it also accommodates over 6,000 books.



Avala Tower is located 16 km south of Belgrade. With its height of 511 meters, it barely avoided the classification of the hill. Mineral Avalit got its name by the mountain where it was founded. On the protected area of the Avala, there are around 600 plant species. Monument to the Unknown Hero is also located there. Countries that fought in World War I have The Monument to the Unknown Soldier, only Serbia has the Monument to the Unknown Hero. After World War I, the local population found the grave of the unknown Serbian soldier. People from the local villages erected a modest monument to that soldier in 1922. Later, the National Committee for the erection of a monument decided to have a more representative Monument in his honor on the top of Avala mountain. The Monument was built from 1934 to 1938. Remains of a medieval town of Zrnov were destroyed with the dynamite for the purpose of constructing this Monument in 1934.

On the lower part of Avala, the Tower designed by the architects Uglješa Bogdanović and Slobodan Janjić was built in 1965. The Tower was the tallest construction in the former Yugoslavia and the Balkans. It was demolished in the 1999 bombing of NATO forces. By the initiative of a large number of the citizens and the RTS (Radio Television of Serbia) started rebuilding of an identical tower with the use of new technologies. The Avala Tower reopened on April 21, 2010, for visitors. It offers a beautiful panoramic view of the whole Šumadija.



At 119 meters of the tower is the "Panorama Bar" from which there is a magnificent view, almost the same as from the observation deck because it is only 3 meters below it. The space is air-conditioned, has a capacity of about 80 seats and the consumption of tobacco is not allowed.

MONUMENT TO AN UNKNOWN HERO IN AVALA



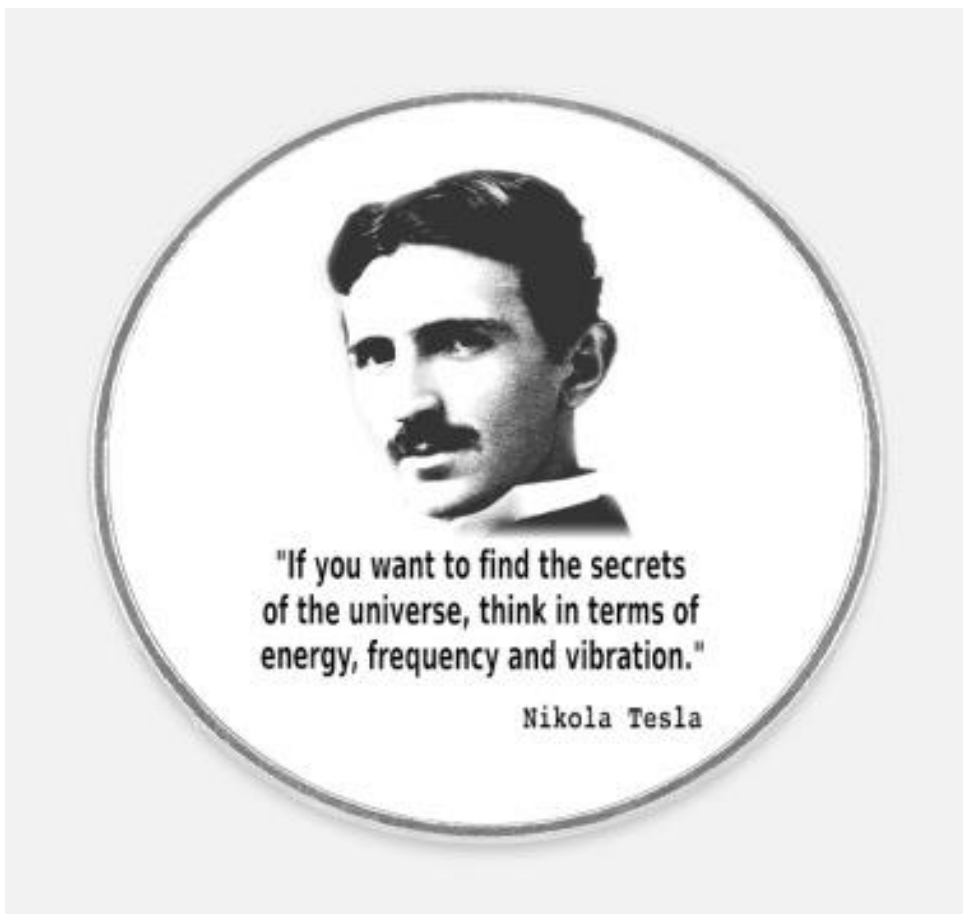
The Monument to the Unknown Hero - Mountain Avala

This magnificent granite memorial atop of Avala is the expression of gratitude to the fallen warriors for freedom in World War I. The first Monument to the Unknown Hero on Avala was built in 1922 by local villagers, in the place of the grave of an unknown fallen soldier. The modern Monument to the Unknown Hero was erected in 1938 based on the design by Ivan Meštrović, in the place of the medieval town of Žrnov.





The **Nikola Tesla Museum** is a science museum located in the central area of Belgrade, Serbia. It is dedicated to honoring and displaying the life and work of Nikola Tesla as well as the final resting place for Tesla. It holds more than 160,000 original documents, over 2,000 books and journals, over 1,200 historical technical exhibits, over 1,500 photographs and photo plates of original, technical objects, instruments and apparatus, and over 1,000 plans and drawings. Very little is on display in the small ground floor exhibition space.





The Belgrade fortress, built on a white ridge above the confluence of two big rivers, destroyed and rebuilt over and over for 16 centuries, still stands as the symbol of Serbia's capital

This core, from which modern Belgrade developed, was first built at the beginning of the 1st century. During its long history, it was a silent witness to changes in power as a castrum, castel, medieval and artillery fortification. Because of this, it was repeatedly attacked and demolished. It is divided into Lower and Upper town. The position of the fortress on Kalemegdan is extremely favorable - this is where the Sava and Danube meet, the Balkan Peninsula and the Pannonian Plain. During its history, the fortress was conquered by the Huns, Hungarians, and Ottomans, it was damaged during the First World War and occupied during the Second World War.



It is a pedestrian zone and shopping center - protected by law as one of the oldest and most valuable monumental complexes of the city, with a large number of representative buildings and urban houses built at the end of 1870s. It is thought that in as early as the Roman times there was the center of the Singidunum settlement. In this area, at the time of Turks, there were winding streets with gardens, drinking-fountains and mosques. In the middle XIX century, in the upper part of the street was the garden of Knez Aleksandar Karađorđević. After the making of the regulation plan of Belgrade in **1867**, by **Emilijan Josimović**, the street has soon been built and gained its physiomy and content. The houses have been built there and the most influential and wealthiest families of the commercial and political society of Belgrade have come to live there. In **1870**, the city authorities officially gave a name to this street - Ulica Kneza Mihaila.



THE WINNERS

ENGINEERING		
Brazil	Wanghley Soares Martins	GOLD
Russia-Moscow team	Vladislav Marchuk	SILVER
Serbia	Mihajlo Ninkov	BRONSE
ENVIRONMENTAL SCIENCE		
Romania	Rogozan Matei	GOLD
Romania	Suciu Alexia Sofia	GOLD
BRAZIL	Bruno Kayser da Silva Machado	SILVER
Indonesia	Teresa Azarel Gayatri Lamiang	BRONSE
Serbia	Anđela Zorić	SILVER
Hungary	Bence Veres	SILVER
Thailand	Nyanika Techasitsuebpong	BRONSE
Hungary	Boglárka Gáspár	BRONSE
Indonesia	Dhavina Priskila Tjahjadi Gabrielle Rochellin Susanto	BRONSE
COMPUTER SCIENCE		
Thailand	Thee Mateepithaktham	GOLD
Serbia	Aleksandra Spasojević	GOLD
Serbia	Rajko Lapcevic	BRONSE
Russia-Moscow	Konstantin Korolev	BRONSE
Serbia	Milan Mirčić	BRONSE
PHYSICS		
Hungary	Dániel Grosser	GOLD
Hungary	Zsombor Gál-Knappcsek	GOLD
Hungary	Gergely Péter Vári	SILVER
Slovenia	Žiga Vaupotič Tian Vesel	BRONSE
Thailand	NATATPONG SAKMANEEVONGSA	BRONSE
Serbia	Mila Mihajlovic	BRONSE

LIFE SCIENCE		
Romania	Lotrean Darius	GOLD
Russia-Moscow team	Anton Fetisov	GOLD
Romania	Rednic Natalia Zirbo Oana-Maria	SILVER
Romania	Rus Maria Cassandra Bledea Iulia	SILVER
Czech Republic	Štěpán Boudyš	SILVER
Russia-moscow team	Sofia Kiseleva	BRONSE
Serbia	Dušan Marjanović	BRONSE
Hungary	Dóra Százvai	BRONSE
Brazil	João Pedro Silvestre Armani	BRONSE
Slovenia	Neja Štampar	BRONSE
MATHEMATICS		
Serbia	Roman Maksimovich	GOLD
Czech republic	Vojtěch Belada	SILVER
Russia - St Petersburg	Aleksandr Krasilnikov	SILVER
Brazil	Victória Leal Altmayer Silva	BRONSE
Russia - St Petersburg	Iliia Grishchenko	BRONSE



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