



21-26 April 2024

**International
Conference
of Young Scientists
(ICYS) 2024**

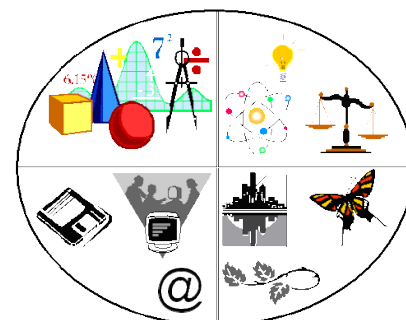
www.icys2024.com

30 YEARS



International Conference of Young Scientists (ICYS)

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, Türkiye
2016, Cluj-Napoca, Romanija
2017, Stuttgart, Germany
2018, Belgrade, Serbia
2019, Kuala Lumpur, Malaysia
2020,
2021, Online
2022, Online
2023, Belgrade, Serbia
2024, İzmir, Türkiye



STEERING COMMITTEE OF ICYS



Adelhaida Kerekes
President



Zsuzsanna Rajkovits
Member, Honorable President



Hans Jordens
Vice President



NIKOLA SRZENTIC
Vice President

Steering Committee

Members



Sergei Sergeev



Monika Raharti



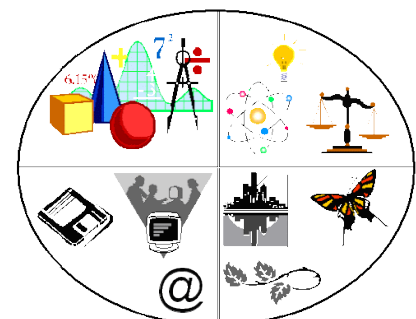
Leonid Markovich



Alexander Urban



Csaba Kirckeszner



DESCRIPTION AND MISSION OF THE ORGANIZER



The main objectives of Buca Municipality in education and arts are; to support the development of young people and children in terms of science, technology, art, to reach information, to be productive person, to apply the information they obtain and thus to grow as individuals with vision and ready for the future. In line with these targets, Buca Science and Art Center was established in 2019 by Buca Municipality. Buca Science and Art Center aims to teach of science at a young age, to discover and reveal the talents of children who have the ability to different branches of art and thus to bring them up as "Scientists of the Future" and "Artists of the Future". It is planned as a center where young people and children can follow and apply science and technology, produce their own projects and perform artistic activities in line with their abilities. Buca Science and Art Center organize science and art fairs to spread the spirit of scientific research and art to the whole world, to enable young people of the same age to make social and cultural exchanges, to bring together young people from all over the world who open to change and development and interested in science, art and technology in Buca, İzmir, Türkiye.

International Conference of Young Scientists (ICYS 2024) (www.icys2024.com) was organized as face to face organization scheduled for 21-26 April 2024 in Buca, İzmir, TÜRKİYE supported by Buca Municipality Buca Science and Art Center in İzmir, Türkiye.



LOCAL ORGANIZATION COMMITTEE OF ICYS 2024

CHAIRMAN OF ORGANIZATION COMMITTEE



ÜMİT KARADEMİR

ORGANIZATION COMMITTEE MEMBERS



MELTEM GÖNÜLOĞLU



CANSU İLKE KURU



BELİT KARACA



LAL TALAY



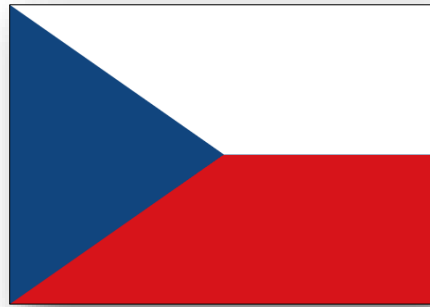
DORUK ERDEM



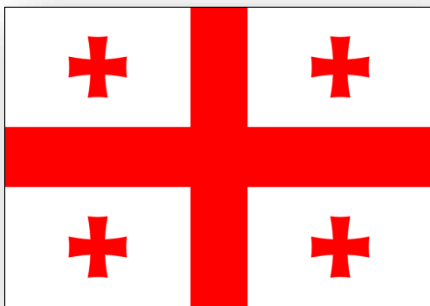
PARTICIPANT COUNTRIES



BRAZIL



CZECH REPUBLIC



GEORGIA



GERMANY



HUNGARY



INDIA



INDONESIA



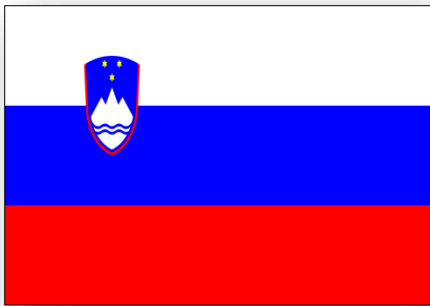
RUSSIA



ROMANIA



SERBIA



SLOVENIA



THAILAND



TURKEY

SCHEDULE

INTERNATIONAL CONFERENCE OF YOUNG SCIENTISTS, ICYS 2024 SCHEDULE

21-26 April, 2024

Date	Time (GMT+3)	Activity	Place
21 April 2024 Sunday	All day	Welcoming the participants from the airport and check into the hotel	
	09.00-10.00	Breakfast	ÇABA Hotel
	14.00	Lunch	ÇABA Hotel
	19.00	Dinner	ÇABA Hotel
	20.00	Team Leaders Meeting	ÇABA Hotel
22 April 2024 Monday	07.30-08.30	Breakfast	ÇABA Hotel
	09.00	Departure from hotel	
	09.30-10.30	Coffee Break	
	9.30-10.30	Set up posters	
	11.00-12.30	Opening Ceremony	
	12.30-13.30	Lunch	
	13.30-16.30	Jury Evaluation (Poster presentations)	
	14.30-15.30	Coffee Break	
	17.00	Departure to Dinner	
19.00	Welcome Dinner	Buca Pond	
23 April 2024 Tuesday	07.00-07.45	Breakfast	ÇABA Hotel
	08.00	Departure from hotel	Oğuzhan Özkaya Educational Institutions
	10.00-11.00	Coffee Break	
	09.30-11.00	Jury Evaluation (Oral presentations)	
	11.15-12.45	Jury Evaluation (Oral presentations)	
	13.00-14.00	Lunch	
	14.30-15.30	Coffee Break	
	14.00-17.00	Jury Evaluation (Oral presentations)	
	17.00-17.30	Gift exchange, local taste	
	17.30-18.30	Buffet dinner	
19.00-21.00	Cultural Night		
24 April 2024 Wednesday	07.30-08.30	Breakfast	ÇABA Hotel
	9.00-18.00	Trip	Efes, Meryemana, Şirince
	20.00	Dinner	Buca Municipality Culture and Art Center/Pink Mansion
25 April 2024 Thursday	07.30-08.30	Breakfast	ÇABA Hotel
	09.00	Departure from hotel	
	09.30-10.30	Coffee Break	
	11.00-13.00	Closing and Award Ceremony	
	13.00-13.30	Lunch	
	13.30-18.00	Trip	Konak-Kemeraltı/İstinyepark AVM
	19.00	Dinner	ÇABA Hotel
26 April 2024 Friday	08.00-09.00	Breakfast	ÇABA Hotel
	All day	Departure of participants from the airport	

STUDENTS

ICYS 2024 Students	
Country	Student's Name and Surname
Brazil	Mariana Amorim Lopes
Brazil	Renzo Honorato Mimoso
Brazil	Manuela Schneider Gottschalck
Brazil	Mariana Stefani Irigaray
Czech Republic	Pavel Forman
Czech Republic	Richard Fajfr
Czech Republic	Kristyna Polednova
Czech Republic	Adam Beran
Czech Republic	Leona Elnakhala
Czech Republic	Miroslav Koci
Georgia	Iakob Saparashvili
Georgia	Sesili Tkemaladze
Georgia	Elene Mari LomTadze
Georgia	Tornike Gabelia
Georgia	Saba Aladashvili
Georgia	Aleksandre Nazgaidze
Georgia	Mariam AbramiSvili
Georgia	Nikoloz labadze
Georgia	Anastasia JavriSvili
Georgia	Giorgi Panjikidze
Georgia	Nia AbduShelishvili
Georgia	Ani Begiashvili
Germany	Paula Fischer
Germany	Nicholas Dahlke
Germany	Christian Krause
Germany	Janis Schönegg
Germany	Maximilian Leicht
Germany	Tim Werner
Hungary	Bence Veres
Hungary	Vivien Vincze
Hungary	Judit Kosztyi
Hungary	Ármin Vámi
Hungary	Ákos Vida
India	Sarthak Kamalkishor Dhole
India	Anshi Jindal
India	Pratyush Goyal
India	Amey Aggarwal
India	Aashvi
India	Pearl Kataria

Indonesia	Ayesha Ramadani Nugroho
Indonesia	Fransiska Nindita Iswari
Indonesia	Angel Anlee
Romania	Irina Adam
Romania	Dóra-ZSófia Balog
Romania	David-Bogdan Condor
Romania	Bianca-Gabriela Copaciu
Romania	Alexandru Neag
Romania	Victor Neag
Romania	Tudor-Ioan Pop
Romania	Alexandra Elena Zeicu
Romania	Maria-Cassandra Rus
Romania	Irina Todea
Russia	Nikita Grechanikov
Russia	Anastasia Khomenko
Russia	Taisiya Volozheva
Russia	Arina Saygina
Russia	Viktor Vasilev
Russia	Sergei Bolbas
Russia	Semen Shustov
Russia	Vadim Bunegin
Russia	George Grasimenko
Russia - St Petersburg	Aleksandr Krasilnikov
Russia - St Petersburg	Dmitrii Stepanov
Russia - St Petersburg	Pavel Fedorov
Russia - St Petersburg	Mikhail Klimenko
Russia - St Petersburg	Aleksandr Kosko
Russia - St Petersburg	Artemii Druzhinin
Serbia	Ljiljana Konjevic
Serbia	Aleksandra Spasojevic
Serbia	Mihajlo Janjicijevic
Serbia	Andjela Zoric
Serbia	Tara Koldzic
Serbia	Mihajlo Ninkov
Serbia	Milica Tomic
Slovenia	Katja Halilovic
Slovenia	Gregor Bokal
Thailand	Airin Intaratat
Thailand	Kasidech Aewsrisakul
Thailand	Pakanan Tussanapirom
Thailand	Mattaya Hungsreesagul
Thailand	Wirulphat Sriola
Türkiye	Mira Küçük
Türkiye	Kıvanç Yılmaz
Türkiye	Zekiye Ak

NUMBER OF PRESENTATIONS

CATEGORY	NUMBER OF PROJECT PRESENTATIONS
Physics	10
Mathematics	11
Computer Science	13
Environmental Sciences	12
Engineering	10
Life Sciences	18

REPRESENTATIVES OF THE COUNTRY - TEAM LEADERS

ICYS 2024 Team Leaders	
Country Name	Team Leader
Brazil	Guilherme Weber
Brazil	Valeria Grazieli Caetano Da Rosa
Czech Republic	Wayne Barber
Georgia	Irma Meskhishvili
Georgia	Mamuka Meskhishvili
Germany	Alexander Urban
Germany	Heike Maier
Hungary	Csaba Kirchkeszner
Hungary	Zsuzsanna Rajkovits
Hungary	Petra Varró
India	Adit Kaur
Indonesia	Monika Raharti
Indonesia	Steve Rijadi Kartantya
Indonesia	Susi Soviana
Indonesia	Anggraini Barlian
Indonesia	Tri Edhi Budhi Soesilo
Romania	Adelhaida Kerekes
Romania	Felicia Boar
Romania	Lavinia-Mirela Muresan
Russia	Sergei Sergeev
Russia	Artem Astapov
Russia - St Petersburg	Andrei Potemkin
Russia - St Petersburg	Boris Zolotov
Serbia	Nikola Srzentic
Serbia	Mateja Opacic
Slovenia	Vesna Fabjan
Thailand	Amarisa Chantanasiri
Thailand	Boonchote Paosawatyanong
Thailand	Chanakan Jaima
Thailand	Chomcheun Siripunka
Türkiye	Ümit Karademir
Türkiye	Cansu İlke Kuru
Türkiye	Meltem Gönüloğlu Çelikoğlu
Türkiye	Cengiz Arsu

JURY MEMBERS

JURY MEMBERS ICYS-2024

Category	Name surname	Country	Speciality
Mathematics	Mamuka Meskhishvili, PhD	Georgia	Mathematics Chairman
	Zolotov Boris	Russia	Mathematics
	Damla Acar, PhD	Türkiye	Mathematics
	Okan Yaman, PhD	Türkiye	Computer, Mathematics
Environmental Science	Csaba Kirchkeszner, PhD	Hungary	Environmental chemistry Chairman
	Adit Kaur	India	Chemistry
	Budhi Soesilo PhD	Indonesia	Ecology, environmental sciences
	Chomcheun Siripunkaw, PhD	Thailand	Environmental biology
	Özgür Seydibeyoğlu, PhD	Türkiye	Chemistry Engineer
Life Sciences	Adelhaida Kerekes, PhD	Romania	Biology Chairman
	Anggraini Barlian PhD	Indonesia	Biology
	Maier Heike	Germany	Biology/Chemistry
	Dr. Weber Guilherme	Brazil	Medicine
	Cansu İlke Kuru, PhD	Türkiye	Biochemistry
Computer Science Engineering	Mateja, Opacic	Serbia	Computer science Chairman
	Yusuf Murat Erten, PhD	Türkiye	Computer Engineer
	Ramon Ernesto Gomez Escamilla	Mexico	Mechatronic Engineer
	Astapov Artem MS	Russia	Physics
	Fatih Cemal Can, PhD	Türkiye	Mechatronic Engineer
Physics	Sergei Sergeev, PhD	Russia	Physics Chairman
	Monika Raharti, PhD	Indonesia	Physics
	Zsuzsanna Rajkovits, PhD	Hungary	Physics
	Meltem Gönüloğ Çelikoğlu, PhD	Türkiye	Physics
	Yavuz Öztürk, PhD	Türkiye	Electric Electrothenic Engineer
Poster	Nikola Serzentic	Serbia	Geography Chairman
	Fabjan Vesna	Slovenia	Geography
	Boar Felicia PhD	Romania	Biology
	Tuğberk Dizdaş PhD	Türkiye	Chemistry
	Berna Üzel Yalçın, PhD	Türkiye	Food Engineer

ICYS 2024 PHOTOS







AWARDS

ICYS 2024 POSTER AWARDS

COMPUTER SCIENCE CATEGORY

FIRST PLACE

Project Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student	3. Student
C3	ROMANIA	KEREKES ADELHAIDA	Experimental Device for monitoring climatic parameters and the electromagnetic field	MUREȘAN LAVINIA	NEAG ALEXANDRU	NEAG VICTOR	
C6	RUSSIA	SERGEI SERGEEV	Stable Diffusion research and solving the consistency problem	SERGEI SERGEEV	TAISIYA VOLOZHEVA		

SECOND PLACE

C4	GERMANY	ALEXANDER URBAN	The challenge of running Python on the Arduino	HELMUT RUF	CHRISTIAN KRAUSE		
C5	RUSSIA	SERGEI SERGEEV	Neural Networks in particle physics	SERGEI SERGEEV	VIKTOR VASILEV		

C8	SLOVENIA	VESNA FABJAN	Comparison of Genetic Algorithm and Reinforcement Learning in Search of the Optimal Strategy of the Game of Nim	VESNA FABJAN	GREGOR BOKAL		
C13	INDONESIA	MONIKA RAHARTI	Password Measurement and Recommendation Based on User Input Using Entropy and PCA Methods	SUSI SOVIANA	FRANSISKA NINDITA ISWARI		
THIRD PLACE							
C9	THAILAND	KASIDECH AEWSRISAKUL	DEEPSYMP: Advancing Diagnostic Accuracy with AI-Enhanced Analysis of Patient Self-Reported Symptoms for Precise Disease Predictions	AMARISA CHANTANA SIRI	KASIDECH AEWSRISAKUL		
C11	INDIA	GEETA RAJAN	Illuminat: Revolutionizing Education through Personalization	ADIT BEDI	AMEY AGGARWAL		

ENGINEERING CATEGORY

FIRST PLACE

Project Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student	3. Student
ENG9	HUNGARY	ZSUZSANNA RAJKOVITS	3D printed gaming controller accessory for individuals with disabilities		ÁKOS - VIDA		
ENG10	TÜRKİYE	ÜMIT KARADEMİR	MODELING FOUR-LEGED ROBOTS: MULTI-PURPOSE ROBOTIC DOG AND APPLICATION OF 3D MODELING	CENGİZ ARSU	MİRA KÜÇÜK	KIVANÇ YILMAZ	ZEKİYE AK

SECOND PLACE

ENG4	RUSSIA	SERGEI SERGEEV	The industrial cleaning robot Robotrack. Robotic cleaning of the urban environment	SERGEI SERGEEV	GEORGE GERASIM ENKO		
ENG5	CZECH REPUBLIC	JAN KŘÍŽ	Development of a Touring Car Body for Slotracing	WAYNE PARBER	ADAM BERAN		

THIRD PLACE							
ENG3	GERMANY	ALEXANDER URBAN	Ionic-Wind: A thruster for the future	HELMUT RUF	MAXIMILIAN LEICHT		
ENG8	INDIA	GEETA RAJAN	Enhancing the efficiency of the Dye-Sensitized Solar Cell and possible applications	ADIT BEDI	SARTHAK KAMALKI SHOR DHOLE		
ENVIRONMENTAL CATEGORY							
FIRST PLACE							
Project Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student	3. Student
ENV5	ROMANIA	KEREKEŞ ADELHAIDA	Investigating Microplastic Contamination in the Someşul Mic River and its affluents: Concentration, Spatial Distribution, and Awareness among Youths”	BOAR FELICIA	CONDOR DAVID-BOGDAN		
SECOND PLACE							
ENV1	SERBIA	NIKOLA SRZENTIC	Determination of Lead Content in Soil by Square Wave Anodic Stripping Voltammetry	NIKOLA SRZENTIC	ANDJELA ZORIC		

ENV11	INDIA	GEETA RAJAN	Exploring And Preparing Eco-friendly alternatives for Conventional Plastic: A Step Towards Green Environment	ADIT BEDI	ANSHI JINDAL		
THIRD PLACE							
ENV2	SERBIA	NIKOLA SRZENTIC	Photocatalytic degradation of methyl-orange using TiO2 nanoparticles	NIKOLA SRZENTIC	TARA KOLDZIC		
ENV3	ROMANIA	KEREKEŞ ADELHAIDA	The use of plant material in obtaining bioplastic	BOAR FELICIA	COPACIU M. BIANCA-GABRIELA	ZEICU A.P. ALEXANDRA ELENA	
ENV12	INDONESIA	MONIKA RAHARTI	The New Bioplastic Material From Cyclea barbata	STEVE RIJADI KARTANTYA	AYESHA RAMADANI NUGROHO		
LIFE SCIENCE CATEGORY							
FIRST PLACE							
Project Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student	3. Student
L2	ROMANIA	KEREKEŞ ADELHAIDA	Impact of Blood Glucose Levels on Cortisol Reactivity in Social Stress	BOAR FELICIA	POP TUDOR IOAN		

			Situations”				
L13	CZECH REPUBLIC	JAN KŘÍŽ	Distribution and Relatedness of Czech Hydnoid Fungi	WAYNE BARBER	PAVEL FORMAN		
SECOND PLACE							
L3	ROMANIA	KEREKEŞ ADELHAIDA	An analysis of sage infused polymer nanofibers as a sterile coating	BOAR FELICIA	RUS MARIA CASSAND RA		
L11	THAILAND	AIRIN INTARATAT	An enhanced deep learning model for Alzheimer’s disease detection and subtype identificatio n based on FDG-PET brain scans	AMARISA CHANTANA SIRI	AIRIN INTARAT AT		
L18	INDIA	GEETA RAJAN	Effects of Caffeine Consumptio n on Iron Absorption: Investigating Inhibitory Mechanisms and Implications for Nutrition	ADIT BEDI	AASHVI		

L19	TÜRKİYE	ÜMIT KARADEMİR	Development Of A Nanobiotechnology-Based Controlled Drug Release System To Increase Therapeutic Effect In Neurological Diseases	DR. CANSU İLKE KURU	BARIŞ ÖZTURAN	SUDENAZ ÖZKIRDE NİZ	
THIRD PLACE							
L4	GERMANY	ALEXANDER URBAN	Bromelain and papain - possible therapy for coeliac disease?	HELMUT RUF	PAULA FISCHER		
L8	CZECH REPUBLIC	JAN KŘÍŽ	Student's Microbial Load on the Way to School and at School	WAYNE BARBER	RICHARD FAJFR		
L10	HUNGARY	ZSUZSANNA RAJKOVITS	Unraveling Mysteries: A Comprehensive Study of the Second Alternative Oxidase Gene in <i>Aspergillus niger</i>	CSABA KIRCHKESZNER, PETRA VARRÓ	BENCE VERES		
L14	SLOVENIA	VESNA FABJAN	Can Venous Thrombosis be Diagnosed by Anyone?	KATJA HALILOVIČ	KATJA HALILOVIČ		

L7	HUNGARY	CSABA KIRCHKESZNER	Antibacterial impact assessment of cyanobacteria	PETRA VARRÓ PHD	VIVIEN VINCZE		
MATHEMATICS CATEGORY							
FIRST PLACE							
Project Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student	3. Student
M1	SERBIA	NIKOLA SRZENTIC	Distances and Rotations in a Rectangular Coordinate System Represented by Quadruples and Their Application	NIKOLA SRZENTIC	LJILJANA KONJEVIC		
SECOND PLACE							
M4	GEORGIA	GEORGE LASKHISHVILI	New Constants Related to Regular Tetrahedron	MAMUKA MESKHISHVILI	NIA ABDUSHELISHVILI	GEORGE PANJIKIDZE	
M11	GEORGIA	GEORGE LASKHISHVILI	Forming concentric circles about a regular triangle or square	MAMUKA MESKHISHVILI	MARIAM ABRAMISHVILI	ANI BEGIASHVILI	

THIRD PLACE

M6	RUSSIA - ST PETERSB URG	ANDREI POTEMKIN	On the geometry of discrete subgroups of PSL ₂ (R)	RUSLAN MAGDIEV	DMITRII STEPANO V		
M8	RUSSIA - ST PETERSB URG	ANDREI POTEMKIN	Study of Cayley graphs for quasi- isometricity to a point	ARTEM SEMIDETN OV	PAVEL FEDOROV		
M9	RUSSIA - ST PETERSB URG	ANDREI POTEMKIN	Classification of finitely generated wreath products by the number of ends	ARTEM SEMIDETN OV	MIKHAIL KLIMENK O		

PHYSICS CATEGORY

FIRST PLACE

Project Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student	3. Student
P3	SERBIA	NIKOLA SRZENTIC	Approximati on of macroseismi c intensity and ground acceleration on seismic hazard maps	NIKOLA SRZENTIC	MILICA TOMIC		
P9	TÜRKİYE	ÜMIT KARADEMİR	Detection of Microplastic s in Liquid by Polarization of Light	MELTEM GÖNÜLOL ÇELIKOĞLU	EYMEN KAYKUSU Z	RIFAT ÇAĞAN ÖZBENT	

SECOND PLACE

P1	ROMANI A	KEREKES ADELHAIDA	Production of MIP film for moxifloxacin detection using 3D printing technology	MUREŞAN LAVINIA	BALOG DÓRA- ZSÓFIA	VÉGH ERVIN- JÁNOS	
P2	ROMANI A	KEREKES ADELHAIDA	A view over alteration strategies and the dynamics of bioactive glass particles with applications on tissue regeneration	MUREŞAN LAVINIA	TODEA IRINA		
P6	GEORGI A	GEORGE LASKHISHVILI	Experimenta l Measureme nts of Sound Intensities	GEORGE LASKHISHV ILI	IAKOB SAPARA	SESILI TKEMAL ADZE	

THIRD PLACE

P10	GEORGI A	GEORGE LASKHISHVILI	Quantum Protocols for Utulizing Classical and Quantum Resources	GEORGE LASKHISHV ILI	SABA ALADASH VILI	ALEKSA NDRE NAZGAI DZE	
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ICYS 2024 PRESENTATION AWARDS

COMPUTER SCIENCE CATEGORY

GOLD MEDAL

Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student
C6	RUSSIA	SERGEI SERGEEV	Stable Diffusion research and solving the consistency problem	SERGEI SERGEEV	TAISIYA VOLOZHEVA	
C7	RUSSIA	SERGEI SERGEEV	Computer control using optical gesture recognition	SERGEI SERGEEV	NIKITA GRECHANIKOV	KIRILL SHIKHANOV

SILVER MEDAL

C1	SERBIA	NIKOLA SRZENTIC	Skin disease detection software using ML technology	NIKOLA SRZENTIC	ALEKSANDRA SPASOJEVIC	
C4	GERMANY	ALEXANDER URBAN	The challenge of running Python on the Arduino	HELMUT RUF	CHRISTIAN KRAUSE	
C14	INDONESIA	MONIKA RAHARTI	Application of Artificial Intelligence in Skill Development: Personal Trainer for Workout	STEVE RIJADI KARTANTYA	ANGEL ANLEE	

BRONZE MEDAL						
C2	SERBIA	NIKOLA SRZENTIC	Device for detecting and correcting irregular gait using artificial intelligence	NIKOLA SRZENTIC	MIHAJLO JANJICJEVIC	
C5	RUSSIA	SERGEI SERGEEV	Neural Networks in particle physics	SERGEI SERGEEV	VIKTOR VASILEV	
C11	INDIA	GEETA RAJAN	Illuminat: Revolutionizing Education through Personalization	ADIT BEDI	AMEY AGGARWAL	
C13	INDONESIA	MONIKA RAHARTI	Password Measurement and Recommendation Based on User Input Using Entropy and PCA Methods	SUSI SOVIANA	FRANSISKA NINDITA ISWARI	
ENGINEERING CATEGORY						
GOLD MEDAL						
Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student
ENG3	GERMANY	ALEXANDER URBAN	Ionic-Wind: A thruster for the future	HELMUT RUF	MAXIMILIAN LEICHT	
ENG9	HUNGARY	ZSUZSANNA RAJKOVITS	3D printed gaming controller accessory for individuals with disabilities		ÁKOS - VIDA	

SILVER MEDAL						
ENG2	GERMANY	ALEXANDER URBAN	Smart Robotics for Sustainable Precision Farming	HELMUT RUF	JANIS SCHÖNEGG	
ENG5	CZECH REPUBLIC	JAN KŘÍŽ	Development of a Touring Car Body for Slotracing	WAYNE PARBER	ADAM BERAN	
BRONZE MEDAL						
ENG1	SERBIA	NIKOLA SRZENTIC	Microstrip periodic structures and their application for microwave bandstop filter	NIKOLA SRZENTIC	MIHAJLO NINKOV	
ENG7	BRAZIL	GUILHERME WEBER	Smart Insole Feedback System for Walking Analysis	VALERIA GRAZIELI CAETANO DA ROSA	MANUELA SCHNEIDER GOTTSCHALCK	MARIANA STEFANI IRIGARAY
ENG8	INDIA	GEETA RAJAN	Enhancing the efficiency of the Dye-Sensitized Solar Cell and possible applications	ADIT BEDI	SARTHAK KAMALKISHOR DHOLE	
ENVIRONMENTAL CATEGORY						
GOLD MEDAL						
Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student
ENV5	ROMANIA	KEREKEŞ ADELHAIDA	Investigating Microplastic Contamination in the Someşul Mic River and its affluents:	BOAR FELICIA	CONDOR DAVID-BOGDAN	

			Concentration, Spatial Distribution, and Awareness among Youths”			
ENV3	ROMANIA	KEREKEŞ ADELHAIDA	The use of plant material in obtaining bioplastic	BOAR FELICIA	COPACIU M. BIANCA-GABRIELA	ZEICU A.P. ALEXANDRA ELENA
SILVER MEDAL						
ENV4	ROMANIA	KEREKEŞ ADELHAIDA	Prevalence of Heavy Metal Resistant Bacteria in Soils in a Village around a Former Iron Mine	BOAR FELICIA	ADAM IRINA	
ENV12	INDONESIA	MONIKA RAHARTI	The New Bioplastic Material From <i>Cyclea barbata</i>	STEVE RIJADI KARTANTYA	AYESHA RAMADANI NUGROHO	
ENV1	SERBIA	NIKOLA SRZENTIC	Determination of Lead Content in Soil by Square Wave Anodic Stripping Voltammetry	NIKOLA SRZENTIC	ANDJELA ZORIC	
ENV11	INDIA	GEETA RAJAN	Exploring And Preparing Eco-friendly alternatives for Conventional Plastic: A Step Towards Green Environment	ADIT BEDI	ANSHI JINDAL	

BRONZE MEDAL

ENV7	RUSSIA	SERGEI SERGEEV	Investigation of the growth-stimulating activity of nitrogen-fixing bacteria obtained from the Baer knolls soils	SERGEI SERGEEV	SEMEN SHUSTOV	EKATERINA KUDRYAVTS EVA
ENV10	CZECH REPUBLIC	JAN KŘÍŽ	Green Chemistry In the Field Of Organic Coatings	WAYNE BARBER	KRISTYNA POLEDNOVA	
ENV2	SERBIA	NIKOLA SRZENTIC	Photocatalytic degradation of methyl-orange using TiO ₂ nanoparticles	NIKOLA SRZENTIC	TARA KOLDZIC	

ENCOURAGEMENT AWARD

	GERMANY	ALEXANDER URBAN	Bonding non-polar synthetic polymers using eddy current	HELMUT RUF	TIM WERNER	
ENV9		CSABA KIRCHKESZNER	Laboratory astrochemistry of sulfur compounds – the importance of hydrogenation processes	PETRA VARRÓ	ÁRMIN VÁMI	

LIFE SCIENCE CATEGORY

GOLD MEDAL

Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student
L2	ROMANIA	KEREKEŞ ADELHAIDA	Impact of Blood Glucose Levels on Cortisol Reactivity in Social Stress Situations”	BOAR FELICIA	POP TUDOR IOAN	
L10	HUNGARY	ZSUZSANN A RAJKOVITS	Unraveling Mysteries: A Comprehensive Study of the Second Alternative Oxidase Gene in <i>Aspergillus niger</i>	CSABA KIRCHKESZNER, PETRA VARRÓ	BENCE VERES	
L11	THAILAND	AIRIN INTARATAT	An enhanced deep learning model for Alzheimer’s disease detection and subtype identification based on FDG-PET brain scans	AMARISA CHANTANASIRI	AIRIN INTARATAT	
L13	CZECH REPUBLIC	JAN KŘÍŽ	Distribution and Relatedness of Czech Hydroid Fungi	WAYNE BARBER	PAVEL FORMAN	

SILVER MEDAL						
L3	ROMANIA	KEREKEŞ ADELHAI DA	An analysis of sage infused polymer nanofibers as a sterile coating	BOAR FELICIA	RUS MARIA CASSANDRA	
L4	GERMANY	ALEXANDER URBAN	Bromelain and papain - possible therapy for coeliac disease?	HELMUT RUF	PAULA FISCHER	
L12	THAILAND	WIRULPHAT SRIOLA AND MATTAYA HUNSRE ESAGUL	Effect of Centella asiatica extract on associative memory in Caenorhabditis elegans	BOONCHOTE PAOSAWATYAN YONG	WIRULPHAT SRIOLA	MATTAYA HUNSREESA GUL
L19	TÜRKİYE	ÜMIT KARADE MİR	Development Of A Nanobiotechnology-Based Controlled Drug Release System To Increase Therapeutic Effect In Neurological Diseases	DR. CANSU İLKE KURU	BARIŞ ÖZTURAN	SUDENAZ ÖZKIRDENİZ
BRONZE MEDAL						
L5	RUSSIA	SERGEI SERGEE V	Meropenem stability increasing with a range of β -cyclodextrin derivatives as an approach to highly efficient drug design for airway therapy of coronavirus infection	SERGEI SERGEEV	ARINA SAIGINA	

L8	CZECH REPUBLIC	JAN KRÍŽ	Student's Microbial Load on the Way to School and at School	WAYNE BARBER	RICHARD FAJFR	
L14	SLOVENIA	VESNA FABJAN	Can Venous Thrombosis be Diagnosed by Anyone?	KATJA HALILOVIČ	KATJA HALILOVIČ	
L17	BRAZIL	GUILHERME WEBER	Autism: Development of an AI to identify ASD	VALERIA GRAZIELI CAETANO DA ROSA	Renzo Honorato Mimoso	

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L18	INDIA	GEETA RAJAN	Effects of Caffeine Consumption on Iron Absorption: Investigating Inhibitory Mechanisms and Implications for Nutrition	ADIT BEDI	AASHVI	
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MATHEMATICS CATEGORY

GOLD MEDAL

Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student
M4	GEORGIA	GEORGE LASKHISHVILI	New Constants Related to Regular Tetrahedron	MAMUKA MESKHISHVILI	NIA ABDUSHELISHVILI	GEORGE PANJIKIDZE

M5	RUS A - ST PETER SBURG	ANDREI POTEMKIN	On subfunctors of representable functors	ARSHAK AIVAZIAN	ALEKSANDR KRASILNIKOV	
SILVER MEDAL						
M2	RUS A	SERGEI SERGEEV	Lattices of the maximal antichains	SERGEI SERGEEV	ANASTASIA KHOMENKO	MILENA KEELUS
M11	GEOR GIA	GEORGE LASKHISHVI LI	Forming concentric circles about a regular triangle or square	MAMUKA MESKHISHVILI	MARIAM ABRAMISHVI LI	ANI BEGIASHVIL
BRONZE MEDAL						
M1	SERBI A	NIKOLA SRZENTIC	Distances and Rotations in a Rectangular Coordinate System Represented by Quadruples and Their Application	NIKOLA SRZENTIC	LJILJANA KONJEVIC	
M9	RUS A - ST PETER SBURG	ANDREI POTEMKIN	Classification of finitely generated wreath products by the number of ends	ARTEM SEMIDETNOV	MIKHAIL KLIMENKO	
M10	RUS A - ST PETER SBURG	ANDREI POTEMKIN	On the algebraic conditions related to super- polynomiality of groups	RUSLAN MAGDIEV	ALEKSANDR KOSKO	

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M3	RUSSIA	SERGEI SERGEEV	On solving classical construction problems by means of a template	SERGEI SERGEEV	SERGEY BOLBAS	
M6	RUSSIA - ST PETERSBURG	ANDREI POTEKIN	On the geometry of discrete subgroups of $PSL_2(\mathbb{R})$	RUSLAN MAGDIEV	DMITRII STEPANOV	
M7	RUSSIA - ST PETERSBURG	ANDREI POTEKIN	Extremal semifinite harmonic functions on some graded graphs	ARTEM SEMIDETNOV	ARTEMII DRUZHININ	
M8	RUSSIA - ST PETERSBURG	ANDREI POTEKIN	Study of Cayley graphs for quasi-isometricity to a point	ARTEM SEMIDETNOV	PAVEL FEDOROV	

PHYSICS CATEGORY

GOLD MEDAL

Code	Country Name	Representative of the Country	Name of the Project	Team Leader	1. Student	2. Student
P3	SERBIA	NIKOLA SRZENTIC	Approximation of macroseismic intensity and ground acceleration on seismic hazard maps	NIKOLA SRZENTIC	MILICA TOMIC	

P4	GERMANY	ALEXANDER URBAN	mpæmba - supercooling with memory?	HELMUT RUF	NICHOLAS DAHLKE	
SILVER MEDAL						
P9	TÜRKİYE	ÜMIT KARADEMİR	Detection of Microplastics in Liquid by Polarization of Light	MELTEM GÖNÜLÖL ÇELİKOĞLU	EYEMEN KAYKUSUZ	RIFAT ÇAĞAN ÖZBENT
P10	GEORGIA	GEORGE LASKHISHVILI	Quantum Protocols for Utilizing Classical and Quantum Resources	GEORGE LASKHISHVILI	SABA ALADASHVILI	ALEKSANDRE NAZGAIDZE
BRONZE MEDAL						
P1	ROMANIA	KEREKES ADELHAIDA	Production of MIP film for moxifloxacin detection using 3D printing technology	MUREŞAN LAVINIA	BALOG DÓRA-ZSÓFIA	VÉGH ERVIN-JÁNOS
P2	ROMANIA	KEREKES ADELHAIDA	A view over alteration strategies and the dynamics of bioactive glass particles with applications on tissue regeneration	MUREŞAN LAVINIA	TODEA IRINA	
ENCOURAGEMENT AWARD						
P8	INDIA	GEETA RAJAN	Electrolyte Infused Drinks: How hydrating are they?	ADIT BEDI	PRATYUSH GOYAL	

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