



The International Movement for Leisure
Activities in Science and Technology



EXPO-SCIENCES INTERNATIONAL

PUEBLA MEXICO
FROM OCTOBER 21 TO 27, 2023

COMMEMORATIVE BOOK





EXPO-SCIENCES
INTERNATIONAL
PUEBLA MEXICO
FROM OCTOBER 21 TO 27, 2023

541

PARTICIPANTS

35

COUNTRIES

195

PROYECTS



The International Movement for Leisure
Activities in Science and Technology

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01

About MILSET

The International Movement for Leisure Activities in Science and Technology (MILSET - Mouvement International pour le Loisir Scientifique Et Technique) is a non-governmental, non-profit, and politically independent youth organization, that aims at developing scientific culture among young people through the organization of science and technology programs, including science fairs, science camps, congresses and other activities of quality. MILSET was created during ESI 87, the first International Science Fair held in Quebec, Canada in 1987. Since then, regional offices have been established in Latin America, Africa, Asia, Europe and North America.



Get further information about MILSET on www.milset.org



02

About REDMex

The National Network of Youth Activities in Science and Technology is a group of people and institutions that coordinate, promote, and disseminate activities that allow spaces for participation that contribute to the formation of a scientific and technological culture in Mexican children and youth.

Its vision is to achieve the consolidation of a scientific and technological culture based on values, designing strategies that impact society, promoting the formation of human capital in research, and helping to strengthen the lines of public policies oriented to the development of science and technology. in the country and its general objective is to promote and coordinate youth activities in science and technology at all levels in the Mexican Republic.



RED
**Red Nacional de Actividades
Juveniles en Ciencia y Tecnología**

Get further information about REDMex on www.laredmex.org



03

About ESI

MILSET Expo-Sciences International 2023 is a non-competitive event that brings together youth, educators, and scientific experts from Asia, Europe, North America, Latin America, and Africa, to exchange ideas and compare scientific projects fostering networking and international collaboration.

MILSET ESI Puebla 2023 aims to promote scientific knowledge in a multicultural environment through an exhibition of projects created by youth from all over the world. It is a unique opportunity for budding talents to come together and share ideas on scientific innovation in the largest youth science expo in the world, encouraging thought leadership and creativity for the future leaders of tomorrow in STEAM fields.

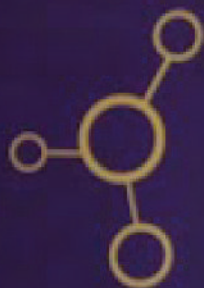
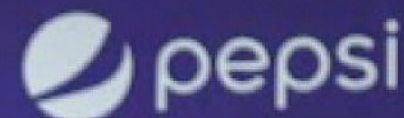




The International Movement for Leisure
Activities in Science and Technology



RED
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Juveniles en Ciencia y Tecnología



EXPO-SCIENCES
INTERNATIONAL
PUEBLA MEXICO



#BeyondScience



04

Executive Summary

504

International
Participants

37

National
Participants

37

Delegations

4

City Tours

5

Scientific
Disciplines

35

Volunteers

7

Days
Program

3

Days Expo



35

Countries

195

Projects



1000

Visitors

12

Workshops, Lectures
or Roundtables

4

Hotels

5

Guests

05

Organizing ESI 2023

Organizing Committee

The organizing committee responsible for the planning and execution of the event comprised professionals from the Department of Coordination of Young Researchers at the Universidad Popular Autónoma del Estado de Puebla ('UPAEP'), situated in Puebla, Mexico. UPAEP meticulously planned and coordinated several activities of the event because it served as the headquarters of 'REDMex'.

It is gratifying to know about the results of all the efforts done by REDMex team and MILSET Executive Committee and Staff to organize the MILSET ExpoSciences International – Puebla, Mexico. The preparation time, diversity of the guests and the logistical challenges were successfully overcome with such a great team.

The committee's team included students from diverse undergraduate programs at UPAEP, playing a crucial role in ensuring the success of the event. These students, as part of their scholarship service, provided invaluable assistance in executing various activities throughout the event's development. Their unwavering commitment and dedication significantly enhanced the quality of the different activities.

International volunteers of MILSET, hailing from countries such as Belgium, Colombia, and Peru, also collaborated with the organizing committee, bringing a global and enriching perspective to the event. Furthermore, national volunteers of REDMex from the states of San Luis Potosí and Guadalajara actively participated, with the support of 'REDiJ' and the Center for Technical Industrial Education ('Centro de Enseñanza Técnica Industrial').

This diverse array of participants, both national and international, contributed to the richness and breadth of perspectives present at the event. Their collective efforts played a crucial role in disseminating and popularizing the event. The collaboration of this diverse team strengthened the event's presence and impact in the fields of science and technology, reaching a wider and more diverse audience.

In summary, the collaborative efforts of this varied and dedicated organizing committee were instrumental in the successful realization of the event, solidifying 'REDMex's' position as a space for exchange, learning, and collaboration in the realm of research and science.



Volunteers

The Department of Coordination of Young Researchers at the 'UPAEP' carries out the 'Expo Ciencias' project annually, focusing on organizing events at the state and national levels. This program, tailored to provide students with scholarship services, aims primarily at developing formative competencies through active participation in administrative, academic, and logistical activities.

In the ESI 2023 edition, more than 35 volunteers enthusiastically joined the program, including students fulfilling scholarship service obligations, professionals from 'REDMex' and 'REDiJ', as well as collaborators from the 'Centro de Enseñanza Técnica Industrial'. Over a week, these dedicated volunteers played a pivotal role in shaping and ensuring the success of the ESI 2023 event.

From the very beginning, our volunteers seamlessly coordinated their efforts to extend a warm welcome to international delegates at 'Terra Puerto Paseo Destino'. They took charge of organizing arrivals and provided crucial support to ensure the comfortable accommodation of participants. These logistical endeavors contributed to creating an environment conducive to exchange and collaboration among attendees.

It is noteworthy that many of our volunteers were selected based on their prior participation in various national and state events, ensuring their seasoned experience and familiarity with the dynamics of the event. Their involvement spanned various aspects of ESI, from handling registration and welcome procedures to supporting delegations and visitors. Additionally, they played a vital role in the coordination of marketing and communications throughout the event.



The main functions carried out by our volunteers included welcoming and orienting participating delegations, assisting elementary, and high school students during guided tours, addressing inquiries related to the Expo, organizing the flow of people in the food court, and providing general information and guidance to all participants. The dedication and professionalism exhibited by our team of volunteers were instrumental in the success and smooth operation of ESI 2023, reinforcing UPAEP's commitment to the promotion of science and technology.

Venue

The UPAEP Convention Center conceived in response to Vision 2015, aiming to fulfill the need for a versatile space capable of hosting significant institutional events. Designed as a hub for societal, business, inter-university, and fine arts gatherings, the UPAEP Convention Center boasts features that promote versatility and excellence, including:

Adaptability

Rooms with movable walls allow for a customized distribution from 1 to 6 rooms.

Ceilings with LED lighting for zenithal light, with independent control.

Lighting

Projection

A projection system with excellent screen resolution.

Ceiling and linear sound system for voice and high fidelity audio.

Sound

Parking

Ample parking with access control and 800 parking spaces.

An air-conditioned environment with pure and silent air (cold only).

Air Conditioning

Security

Video surveillance system.

With a construction covering 30,500 square meters, the 'Centro de Vinculación' is an ideal venue for various events such as exhibitions, seminars, congresses, symposiums, conventions, forums, business events, concerts, musicals, fairs, cultural, and social events.

The UPAEP event, given its magnitude, utilized not only the space of the 'Centro de Vinculación' but also various activities conducted within the Central Campus.

The official opening took place at the NIDO, the iconic venue for thrilling basketball games of the UPAEP team. This dynamic space witnessed key moments marking the beginning of the event, from the warm reception of visiting delegations to the emotional opening ceremony. The 'NIDO' became the epicenter of the welcome, and the parade of representatives from participating nations added a touch of diversity and cultural representation, highlighting the richness of the UPAEP community. The photo session not only immortalized the event but also encapsulated the essence of global collaboration.

Simultaneously, the UPAEP Liaison Center played a crucial role in hosting a substantial part of the event. Four of its halls were adeptly utilized for the arrangement and exhibition of more than 150 innovative projects. This space served as a platform for the presentation of ideas and fostered the exchange of knowledge within conferences and workshops for participants, advisors, and visitors.

The diversity of projects presented at the exhibition venue significantly contributed to the overall success of the event, offering a broader panorama of the diverse fields of research and development within the UPAEP community. The combination of activities created a complete and enriching experience for all involved, consolidating the event as an outstanding meeting point that celebrates academic excellence and creativity.



Accreditation

The in-person registration process unfolded seamlessly at the UPAEP Linkage Center, serving as the hub where delegates displayed their projects. This pivotal activity commenced at 10:00 a.m., facilitated through three efficient registration modules. Heads of delegation had the exclusive authorization, empowering them to navigate the registration process and procure the participant kits.

The outcomes of this dynamic registration process are as follows:



These compelling statistics bear witness to the resounding success of the registration phase, underscoring the event's diversity and comprehensive participation. The figures vividly portray the event's relevance and substantial impact on the academic and scientific community.

Participant Kits

Coordinating the assembly of the welcome packets posed a considerable challenge, particularly due to the involvement of an external institution associated with 'LaREDMex'. Notably, this institution played a crucial role by proactively dispatching the materials in advance via land transport, covering an extensive journey of over 1100 kilometers to reach the State of Puebla, Mexico.



The meticulously curated welcome packets comprised fabric shirts adorned with the event and institutional branding, accompanied by pens, folders, personalized badges, and sports shirts featuring the event's imagery in various sizes. This intricate logistical operation successfully came to fruition, thanks to the invaluable support extended by the collaborating and affiliated institutions of 'LaREDMex', exemplifying the spirit of collaboration that defined this project.

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Sponsors

The MILSET ExpoSciences ESI 2023, held in Puebla, was an outstanding achievement, greatly attributed to the invaluable support and sponsorships received from esteemed entities. We extend our sincerest gratitude to:

Almeer Technical Services Co.
Milset Asia
UPAEP
TELCEL
PEPSI
Colegios UPAEP
Remington, A.C. School
Escuela Superior de las Bellas Artes Chayito Garzón"

TOTAL INCOME BY SPONSORSHIPS | USD 46,566.65

Their sponsorship not only provided essential financial support but also exemplified their unwavering dedication to promoting scientific education and encouraging innovation among the youth.

The total cost of the event amounted to a remarkable USD 229,396.83 and it is imperative to acknowledge that without the unwavering support of these sponsors, , achieving such an extraordinary outcome would have been considerably more challenging.

Their partnership and dedication to the advancement of science and technology are deeply appreciated and have left an indelible mark on the success of MILSET Expo-Sciences ESI 2023.



RED
Red Nacional de Actividades
Juveniles en Ciencia y Tecnología



Secretaría
de Educación

CONCYTEP
Consejo de Ciencia
y Tecnología del Estado
de Puebla



Puebla
Contigo y con rumbo
Gobierno Municipal

Secretaría de
**Economía
y Turismo**

PUEBLA
• Ciudad Patrimonio Mundial •



ESCUELA SUPERIOR
DE LAS BELLAS ARTES

telcel



07

MILSET Members

Delegations & Leaders

Country	Organization	Delegation Leader
Argentina	Asociación Civil Red Argentina de Ciencia, Tecnología y Comunicación	Carlos Alberto Vaio
Argentina	Asociación Vida y Ciencias	Martin Atilio Siebenhar
Belgium	Jeunesses Scientifiques de Belgique	Luca Luongo
Brazil	Feria Nordestina de Ciencias y Tecnologia	Rosenilda De Souza Vilar
Brazil	Movimento pela Ciência e Aprendizagem Brasil	Maria Das Graças França Sales
Bulgaria	Evrika Foundation	Konstantin Vassilev Delchev
Canada	Youth Science Canada / Sciences Jeunesse Canada	Dominic Tremblay
Chile	Fundación Club Ciencias Chile	Fredy Hernán Segura Albornoz
Colombia	Ministerio de Ciencia, Tecnología e Innovación	Nury Pérez Cruz
Colombia	Red Colombiana de Semilleros de Investigación	Elena Correal Arboleda

The MILSET ExpoSciences International ESI 2023 welcomed **37 delegations** from MILSET member organizations representing **28 countries.**

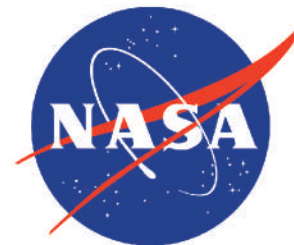
These delegations consisted of students, supervisors, heads of delegations, and in some cases, MILSET Authorities and visitors.

Costa Rica	Escuela y Colegio Científico Interamericano CATIE	Angie Mata Tencio	Peru	Consejo de Ciencia y Tecnología Global	Atilio Rodolfo Buendia Giribaldi
Czech Republic	Asociace malých debružárů České Republiky	Karel Lukes	Portugal	Fundação da Juventude	Júlia Maria Valente Pereira
France	Collectif Français des Exposciences	Thierry Fayard	Puerto Rico	Jovenes Cientificos de Puerto Rico	Marlene De Varona
Germany	Landesverband Sächsischer Jugendbildungswerke e.V.	Antje Krausse	Qatar	Qatar Science Club	Fatima Ali Al-Muhannadi
Germany	Technical Ecological Youth Project Centre Rabutz e.V.	Dr. Elk Messerschmidt	Romania	MILSET Romania	Sorina Maria Leu
Italy	Federazione delle associazioni scientifiche e tecniche	Alberto Pieri	Russia	All-Russia Movement of creative teachers "Researcher"	Alexey Obukhov
Italy	Manto Circular Lab	Mauro Grandi	Slovakia	Asociácia pre mládež, vedu a techniku	Jana Cornáková
Kuwait	MILSET Asia-Kuwait	Aysa A Y H Almeer	Slovakia	Vedecká Hračka	Monika Lugošová
Mexico	Red Nacional de Actividades Juveniles en Ciencia y Tecnología (RED)	Jesus Alexis Galván Moreno	Slovenia	Zveza za tehnično kulturo Slovenije	Tim Prezelj
Oman	National Center for Scientific Skills Development	Khalid Saleem Rashid Alshaqsi	Spain	Instituto de Investigaciones Científicas y Ecológicas	Ivan Nadal Latorre
Paraguay	Asociación de Profesionales de Ciencias y Tecnología de Capital	Carmen Alvarenga De Benitez	Spain	MAGMA, Associació per promoure la Recerca Jove	Sergi Macia Munoz
Paraguay	Colegio de San José	Alfredo Bareiro Baez	Switzerland	Schweizer Jugend forscht	Julián Cancino
Paraguay	Colegio Privado Bilingüe Girasoles	Maria Nilda Martinez Aleman	Taiwan	National Taiwan Science Education Center	Wu, Sheng-Hui
			Zimbabwe	Zimbabwe Science Fair	Nicola Willis

Guests

The 18th edition of the MILSET Expo-Sciences International ESI 2023 witnessed the remarkable participation of esteemed guests, including:

Country	Organization	Representative
Bulgaria	Sofia University	VLADIMIR VESELINOV BOZHILOV
United Kingdom	LIYSF	RICHARD MYHILL
United States of America	NASA	JORGE L SOTOMAYOR
United States of America	NASA	CARLOS FONTANOT
United States of America	NASA	LIVETTE SANTIAGO CARDONA



08

ESI 2023 Program

Opening Ceremony



Conferences on Space

Monday, October 23, 2023		
Activity	Schedules	Place
Breakfast	7:00 - 8:00 hrs.	Hotels Headquarters
Transfer from Hotels to "El NIDO" UPAEP Basketball Stadium & Delegates' Accommodation	8:00 - 10:00 hrs.	Headquarters Hotels to 'El NIDO' UPAEP Basketball Stadium
Opening Ceremony	10:00 - 11:00 hrs.	'El NIDO' UPAEP Basketball Stadium
Exhibition	11:00 - 13:30 hrs.	Exhibition Halls UPAEP Convention Center
Leader Congress Session 1 by NASA	12:00 - 12:30 hrs.	UPAEP Convention Center/ Room 6 Auditorium
Leader Congress Session 2 by Alexey Obukhov <i>"Expedition as a part of an activity-based approach to explore the world: overcoming distances and borders"</i>	12:30 - 13:00 hrs.	UPAEP Convention Center/ Room 6 Auditorium
Conferences on Space	11:00 - 12:00 hrs.	UPAEP Convention Center/ Room 3 Auditorium
Conferences on Space	12:00 - 13:00 hrs.	UPAEP Convention Center/ Room 3 Auditorium
Transfer from UPAEP Convention Center to Hotel Real Puebla	13:30 - 14:00 hrs.	Hotel Real Puebla
Lunch	14:00 - 15:00 hrs.	Hotel Real Puebla
Tours	16:00 - 18:00 hrs.	Different Options
Dinner	19:30 - 21:00 hrs.	Hotels Headquarters

Tuesday October 24, 2023		
Activity	Schedules	Place
Breakfast	7:00 - 8:00 hrs.	Hotels Headquarters
Transfer from the Hotel to the UPAEP Convention Center	8:00 - 9:00 hrs.	Headquarters Hotels to UPAEP Convention Center
Exhibition	9:00 - 13:30 hrs.	Exhibition Halls UPAEP Convention Center
Sticker Activity	9:15 - 10:15 hrs.	Exhibition Halls UPAEP Convention Center
Leader Congress Session 3 by Marisol del Toro <i>Orozco</i> <i>"Circular Movement: A New World of Opportunities for the Circular Economy"</i>	10:00 - 11:00 hrs.	UPAEP Convention Center/ Room 6 Auditorium
Leader Congress Session 4 by Víctor Segura - <i>"Artificial Intelligence in the real world: how Google Cloud, App Sheet and Bard are changing the world"</i>	11:00 - 11:30 hrs.	UPAEP Convention Center/ Room 6 Auditorium
Leader Congress Session 5 by Vladimir Bozhilov <i>"Searching for Exoplanets in Bulgaria the EXORESTART Project"</i>	11:30 - 12:00 hrs.	UPAEP Convention Center/ Room 6 Auditorium
YCC	10:00 - 13:00 hrs.	UPAEP Convention Center/ Room 3 Workshops Activity with limited space and prior registration
Transfer from UPAEP Convention Center to Hotel Real Puebla	13:30 - 14:00 hrs.	Hotel Real Puebla
Lunch	14:00 - 15:00 hrs.	Hotel Real Puebla
Tour	16:00 - 18:00 hrs.	Different Options
Dinner	19:30 - 21:00 hrs.	Hotels Headquarters

Wednesday, October 25, 2023		
Activity	Schedules	Place
Breakfast	7:00 - 8:00 hrs.	Hotels Headquarters
Transfer from the Hotel to the UPAEP Convention Center	8:00 - 9:00 hrs.	Headquarters Hotels to UPAEP Convention Center
Exhibition	9:00 - 13:30 hrs.	Exhibition Halls UPAEP Convention Center
Sticker Activity	9:15 - 10:15 hrs.	Exhibition Halls UPAEP Convention Center
Leader Congress Session 6 by <i>Andrés Farías</i> "Talent Land: Training Talent through Challenges"	10:00 - 10:30 hrs.	UPAEP Convention Center/ Room 6 Auditorium
Leader Congress Session 7 by <i>Yvonne Guevara</i> "Emotional Intelligence as a training tool in the classroom and at home"	10:30 - 11:00 hrs.	UPAEP Convention Center/ Room 6 Auditorium
Leader Congress Session 8 by <i>Richard Myhill</i> "Thinking outside the classroom, the value and importance of attending science fairs and camps"	11:30 - 12:30 hrs.	UPAEP Convention Center/ Room 6 Auditorium
Conferences on Space	11:00 - 12:00 hrs.	"UPAEP Convention Center/ Room 3 Workshops"
Transfer from UPAEP Convention Center to Hotel Real Puebla	13:30 - 14:00 hrs.	Hotel Real Puebla
Lunch	14:00 - 15:00 hrs.	Hotel Real Puebla
Tour	16:00 - 18:00 hrs.	Different Options
Dinner	19:30 - 21:00 hrs.	Hotels Headquarters

Thursday, October 26, 2023		
Activity	Schedules	Place
Breakfast	8:00 a 9:00 hrs.	Hotels Headquarters
Transfer from the Hotel to the UPAEP Convention Center	9:00 - 10:00 hrs.	Headquarters Hotels to UPAEP Convention Center
Cultural Event	10:00 - 13:00 hrs.	UPAEP Convention Center Rooms
Transfer from UPAEP Convention Center to Hotel	13:00 - 14:00 hrs.	UPAEP Convention Center to Headquarters Hotels
Lunch	14:00 - 15:00 hrs.	Hotels Headquarters
Transfer from the Hotel to the UPAEP Convention Center	16:00 - 17:00 hrs.	Headquarters Hotels to UPAEP Convention Center
Closing Ceremony	17:00 - 18:30 hrs.	UPAEP Convention Center Rooms
Mexican party	18:30 - 19:30 hrs.	UPAEP Convention Center
Transfer from UPAEP Convention Center to Hotel	19:30 - 20:30 hrs.	UPAEP Convention Center to Transfer to Headquarters Hotels
Dinner	20:30 - 21:30 hrs.	Hotels Headquarters

Friday, October 27, 2023		
Activity	Schedules	Place
Breakfast	8:00 - 9:00 hrs.	Hotels Headquarters
Transfer from Hotel to Bus Station 'Terrapuerto Paseo Destino' (Departures)	00:01 - 23:59 hrs.	Hotels Headquarters



Cultural Event

Mexican Party



09

Opening Ceremony

During the ESI 2023 Opening Ceremony, we seized the opportunity to connect with participants, dignitaries, and esteemed guests, marking the commencement of an extraordinary program.

Acknowledging the involvement of each participant in ESI 2023, this juncture unfolded as a splendid celebration, allowing us to relish delightful moments, including:

- ▶ **The UPAEP flag escort and the Mexican National Anthem.**
- ▶ **The Parade of Nations and the UPAEP Marching Band.**
- ▶ **The Authority's speech by MILSET President, Mr. Roberto Hidalgo, and UPAEP Rector, Mr. Emilio Baños Ardavin accompanied on the stage by the President of the Municipal DIF System, Mrs. Liliana Ortíz de Rivera; MILSET Honorary President, Mr. Jean Claude Guiraudon; and REDMex events Coordinator, Mr. José Alberto Tenorio.**
- ▶ **The Aztec Native Dance by UPAEP Fine Arts Department and UPAEP Artistic Expression Center CREA.**



+30

**Authorities and Special
Guests invited**

+300

Participants

+50

**Host Committee members
coordinating and operating the event.**



10

Project Exposition



ARGENTINA



Organisation	Project name	Participants
Asociación Vida y Ciencias	THE ANNUAL COLLECTION OF RAINWATER, AS A VIABLE ALTERNATIVE	JUAN PABLO SOTELO
Asociación Vida y Ciencias	DB HAPPY!	VALENTINO MARTIN LORENZATTI
		IVÁN LUIS FANZI
		VALENTINO GORORDO
Asociación Vida y Ciencias	GOES X YOU	LAUTARO CAMPAGNO
		CANDELA SOLEDAD SANTIAGO
		DEL FRATE LUCAS
Asociación Civil Red Argentina de Ciencia, Tecnología y Comunicación	VITORINOX	RODRÍGUEZ OTERO GUADALUPE
Asociación Civil Red Argentina de Ciencia, Tecnología y Comunicación	ITS NOT JOULES FAULT	OLIVER MOLINA NICOLE SARA

BELGIUM



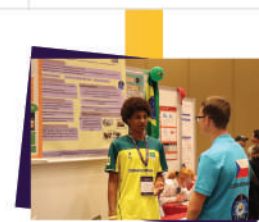
Organisation	Project name	Participants
Jeunes Scientifiques de Belgique	SIGN LANGUAGE TRANSLATOR GLOVE	AZZAM ILHAM
		ELLA EVA ADNET
		AYMERIC NICOLAS DESCAMPS

BRAZIL



Organisation	Project name	Participants
Feria Nordestina de Ciencias y Tecnología	BIMINI AGROFOREST PROJECT	FRANCISCO ÊRE CONSANI STEIDLE
Movimento pela Ciência e Aprendizagem Brasil	BSM POWER 2.0: SUSTAINABLE CHARGER;	VITÓRIA FRANCO DA LUZ
Movimento pela Ciência e Aprendizagem Brasil	THE HUMANIZATION OF PSYCHIATRY ON SCHIZOPHRENIC MENTAL ILLNE	MIGUEL AUGUSTO PEREIRA FRANCISCO
Feria Nordestina de Ciencias y Tecnología	CONNECTED TO EMOTIONS	STEPHANY ASSUNÇÃO ROCHA DE VASCONCELOS
		GIZELE DA COSTA FONTELES
		JEAN CARLO OLIVEIRA TOLEDO
Movimento pela Ciência e Aprendizagem Brasil	EVALUATION OF THE INSECTICIDAL ACTIVITY OF PLANT EXTRACTS	OTÁVIO LUIZ THIEL
Movimento pela Ciência e Aprendizagem Brasil	TUPI OR NOT TUPI	PEDRO LUCAS FERNANDES SILVA SPEAKES
Movimento pela Ciência e Aprendizagem Brasil	PODSCHOOL: THE USE OF PODCAST AS A LEARNING TOOL;	BRENDA JANICE DE SOUSA DE ALMEIDA
Movimento pela Ciência e Aprendizagem Brasil	ANOTHER BRICK IN THE WALL: THE PROBLEMATIC OF EDUCATION	MIGUEL MARTINS DE JESUS
Movimento pela Ciência e Aprendizagem Brasil	SEXISM IN THE SCHOLL ENVIRONMENT	SOFIA MAESTRO DE PAULA
		ISABELA DE SOUZA MARTINS
		YASMIN HEMELRIJK DA SILVA
Movimento pela Ciência e Aprendizagem Brasil	EFFECT OF ANTIDEPRESSANTS IN THE CHEMO-TREATMENT OF A GLIOMA	MARIA JÚLIA PERCINO ALBUQUERQUE
		GIULIA ANA COSTA E FONSECA
		GABRIELLA MARTINS NOGUEIRA

Organisation	Project name	Participants
Movimento pela Ciência e Aprendizagem Brasil	EVALUATION OF THE INFLUENCE OF DIFFERENT TYPES OF SUBSTRATES	RAFAELA SPIECKER CHIAVAGATTI
		GABRIEL VOLPATO FACCIN
Movimento pela Ciência e Aprendizagem Brasil	FERTILIZER PRODUCTION FROM EGG SHELLS AND COCOA SHELLS	MARIA LUIZA PEREIRA DE SOUZA
Movimento pela Ciência e Aprendizagem Brasil	GREEN PROTEIN! LEMNA MINOR ALTERNATIVE FOR HUMAN AND ANIMAL	VIVIANE DE BORTOLI
		VARLEI FONSECA PEREIRA
Movimento pela Ciência e Aprendizagem Brasil	PRODUCTION OF A GEL CREAM FOR THE TREATMENT OF SKIN WOUNDS	ISIS BEATRIZ SOUZA PEREIRA
Movimento pela Ciência e Aprendizagem Brasil	LEARNING FROM THE SEEDS	YASMIN BARBOSA MORAIS
Feria Nordestina de Ciencias y Tecnología	TEACHING SUSTAINABLE AGRICULTURAL TECHNIQUES TO DEAF STUDENT	MATHEUS DA SILVA LIMA
Movimento pela Ciência e Aprendizagem Brasil	COLLECTING AND REUSE THE IMPORTANCE OF REUSE OF DISCARDED PA	LARA VITÓRIA MELO BARBOSA ALMEIDA
		ANA JÚLIA RAMOS ROCHA RAMALHO
Feria Nordestina de Ciencias y Tecnología	ANIMAL WELFARE IN DAIRY CATTLE FARMING	EMMANUELLE SILVA VIEIRA



BURGARIA



Organisation	Project name	Participants
Evrika Foundation	APVS IN THE ECOLOGICAL PRODUCTION OF HORTICULTURAL CROPS	NIKOLETA KALINOVA STOYNOVA
Evrika Foundation	INFLUENZA SYMPTOMS DETECTION AND ANALYSIS WITH REAL-TIME FEE	STOYAN HRISTOV GANCHEV
Evrika Foundation	ANTICOAGULANTS AND THEIR EFFECT ON DNA EXTRACTION	ALEKSANDRA CHAVDAROVA NIKOLOVA

Organisation	Project name	Participants
Youth Science Canada / Sciences jeunes Canada	DRIVER WAKE UP!	BENJAMIN KAWA
Youth Science Canada / Sciences jeunes Canada	NEED A HAND WITH THAT?	MATEO JARQUIN
Youth Science Canada / Sciences jeunes Canada	QUANTUM BIOLOGY IN PHOTOSYNTHESIS	OLIVIER LAFLEUR
Youth Science Canada / Sciences jeunes Canada	ORANGE PEELS IN TREATMENT OF HEAVY METAL WASTEWATER	EUNJO AN
Youth Science Canada / Sciences jeunes Canada	DETECTING - PREVENTING HUMAN FALLING WITH LATERAL STABILITY	REINE HUANG
Youth Science Canada / Sciences jeunes Canada	DO YOU HAVE THE PROFILE OF A WINNER?	JASMIN PELLETIER
Youth Science Canada / Sciences jeunes Canada	GLAZE THE ROOF	SIA MEHTA
Youth Science Canada / Sciences jeunes Canada	FLIGHT OF THE BUMBLE BEE	EVAN HOWELLS
Youth Science Canada / Sciences jeunes Canada	THE HELPING HAND PROJECT	NIK ARTSIMENIA
Youth Science Canada / Sciences jeunes Canada	SHAM(E)POO : CLEAN HAIR WITHOUT THE DIRTY SECRET INGREDIENTS	JACK WASHBURN
Youth Science Canada / Sciences jeunes Canada	JOURNEY TO NETZERO: DECODING KOH AND LIOH FOR CARBON CAPTURE	MAKENZIE WISHART
Youth Science Canada / Sciences jeunes Canada	CAN BIOENGINEERING ALTER GENETIC MUTATIONS?	SARA WAQAS
Youth Science Canada / Sciences jeunes Canada	CAN BIOENGINEERING ALTER GENETIC MUTATIONS?	SARA WAQAS
Youth Science Canada / Sciences jeunes Canada	CREATING A NEW AND IMPROVED WAY TO DEAL WITH AMBIENT NOISE	ANNABELLE TASSET-SCHERER
Youth Science Canada / Sciences jeunes Canada	BOVINE MILK OLIGASACCHARIDES	AKRAM TAHAR CHAOUCH
Youth Science Canada / Sciences jeunes Canada	MOLTEN SALT ELECTROLYSIS FOR THE REDUCTION OF MARS REGOLITH	HOOMAN REZA NEZHAD
Youth Science Canada / Sciences jeunes Canada	SOIL MICROBIAL FUEL CELL	SOPHIE KONG
Youth Science Canada / Sciences jeunes Canada	HOW THE PANDEMIC EFFECTS YOUR MENTAL HEALTH	RHEANNA LEITH
Youth Science Canada / Sciences jeunes Canada	VISABLE	ARCHIE SHOU
		EDWIN WANG
Youth Science Canada / Sciences jeunes Canada	PLASTIC ROOTS	ADARA SHILLING
Youth Science Canada / Sciences jeunes Canada	DETECTING HYPOXIA THROUGH NON-INVASIVE MONITORING	CINDY CHENG
Youth Science Canada / Sciences jeunes Canada	ALGORITHMS TO DETERMINE ASTEROIDS PHYSICAL PROPERTIES	ARUSHI NATH
Youth Science Canada / Sciences jeunes Canada	TRANSFORMER FRAMEWORK FOR INTERPRETING GENE EXPRESSION DATA	ALBERT GUO
Youth Science Canada / Sciences jeunes Canada	ALEX THE AI THAT DOESN'T EXIST	NANDIKA SENTHILKUMAR

Organisation	Project name	Participants
Youth Science Canada / Sciences jeunes Canada	TESLA'S WIRELESS ENERGY	ZACHARY DOSTIE
Youth Science Canada / Sciences jeunes Canada	REALIGN: HELPING RESTORE VISION IN YOUNG CHILDREN	ASHISH CHETTIAMADA
Youth Science Canada / Sciences jeunes Canada	CATCH THE E-WAVE : AN INNOVATIVE PROTOTYPE BUOY	MARIANE ANGERS
Youth Science Canada / Sciences jeunes Canada	BIOINSPIRED BITUMEN ALTERNATIVE	STERLING HUANG
Youth Science Canada / Sciences jeunes Canada	BIOLOGICAL PHOTOVOLTAICS	VERONICA GUO
Youth Science Canada / Sciences jeunes Canada	EFFECTIVENESS SOLAR DISINFECTION FOR SAFE DRINKING WATER	KAVISHI UDUMULLAGE
Youth Science Canada / Sciences jeunes Canada	ELECHOLOCATION: AN INNOVATION TO MITIGATE VISUAL IMPAIRMENT	AFaq VIRK
Youth Science Canada / Sciences jeunes Canada	DETECTING UNCONSCIOUSNESS IN HUMAN DECISION MAKING USING ML	JADELYN TRAN



CANADA



Organisation	Project name	Participants
Fundación Club Ciencias Chile	Inhibition of <i>Aristotelia chilensis</i> on <i>Enterobacteria</i>	MARTINA IGNACIA ÁLVAREZ ALVARADO
		KATALINA BELÉN FUENTES ECHEVERRÍA
Fundación Club Ciencias Chile	Algae antibiosis on pathogenic bacteria	DAMARIS ANTONIA CANCINO PEREIRA
		AMARÚ ROJAS MORALES
Fundación Club Ciencias Chile	Rainfall patterns and water budget of the Cachapoal River	JOAQUIN ANDRES MENESES MARTÍNEZ
		PAULINA MILCHIO DELGADO
Fundación Club Ciencias Chile	Gravity gradient and height in subsurface exploration	DARCY VELASQUEZ TRUJILLO
		ALONSO EMMANUEL VALDIVIA BARRÍA
Fundación Club Ciencias Chile	BANAGRE: ELABORATION OF VINEGAR WITH BANANA PEEL	MILENNE ANAYS BUSTOS SANDOVAL
		CARLOS MANUEL ADAMS BAHAMONDES
Fundación Club Ciencias Chile	Lets save the Chilean bumblebee, our hope	VIICENTE ALONSO PUEN PARRA
Fundación Club Ciencias Chile	The fruit of the worldview of the Atacama Desert	MARTINA IGNACIA ESPINOZA FUENTES
Fundación Club Ciencias Chile	Infusion of Maqui and Calafate	Isela Bastián Yáñez Daza
		Luciana Leonor Bruna Poblete
		Pascale Fernanda DI Genova Moraga
Fundación Club Ciencias Chile	Soaps in times of pandemic	María Agustina Párraga Zambrano
		Maximiliano Andrónico Quintana Soto
Fundación Club Ciencias Chile	DELICIOUS AND ORIGINAL LEGUMES IDEAL FOR CHILDREN AND ADULTS	VICENTE MATIAS CHAMORRO RONDÓN
		Karina Alejandra Aravena Pérez
Fundación Club Ciencias Chile	Prospecting for Antarctic hydrocarbon-degrading bacteria	Esperanza Victoria Garate Ponce
		Nicole Francisca Nahum Soto
Fundación Club Ciencias Chile	THE IMPACT OF ROMANTICIZED STEREOTYPES THROUGH AUDIOVISUAL	Martina Fernanda Arredondo Salazar
		FRANCISCA MARIE LEMA CEA
Fundación Club Ciencias Chile	Mapulawen: Detergents friendly to the environment	EMILIA ANDREA VALDÉS ORTEGA
		BENJAMIN ANDRÉS FIGUEROA ABARZUA
		Constanza Araceli Silva Arellano
Fundación Club Ciencias Chile	CONSTRUCTION OF A HOMEMADE FILTER FOR GRAY WATER	Jhoel Alexander Guajardo Milla
		Anshí Sofia Carvajal Aranda
Fundación Club Ciencias Chile	THE PHOTOSYNTHESIS	Joaquín Ignacio Ibáñez Ramos
		MARTINA DE LOS ANGELES TORRES RIFFO
Fundación Club Ciencias Chile	BIOFRIENDLY: STUDY OF THE EFFICIENCY OF BIO-COMPOST	IRIS VICTORIA MICHELA RUBIO

Organisation	Project name	Participants
Fundación Club Ciencias Chile	ECOLAB MAKING CHANGES	LICEO BICENTENARIO NUESTRA SEÑORA DE LA MERCED, SAN CARLOS
Fundación Club Ciencias Chile	How plants react to music and care	Escuela Viña Purísima
Fundación Club Ciencias Chile	SILENT PANDEMIC	LICEO NICOLÁS FEDERICO LOHSE VARGAS, LOS VILOS
Fundación Club Ciencias Chile	BIOFERTILIZERS. AN ALTERNATIVE TO REDUCE GLOBAL WARMING	Colegio Dalmacia
Fundación Club Ciencias Chile	THE DARK SIDE OF THE LIGHT	VILLA MARIA COLLEGE
Fundación Club Ciencias Chile	PRODUCING A BIODEGRADABLE MASK FROM FRUIT AND VEGETABLE SKIN	ESCUELA JOSÉ AGUSTÍN ALFARO
Fundación Club Ciencias Chile	LORD: ANTARCTIC: A MODEL SHIP POWERED BY GREEN HYDROGEN.	Liceo Industrial Armando Quezada Acharán

CHILE



Organisation	Project name	Participants
Red Colombiana de Semilleros de Investigación	ASSOCIATION OF PSYCHIATRIC DISORDERS WITH STRONG OUTCOMES IN	JUAN DIEGO AYALA CHAVERRA
		VALERIA PABÓN RANGEL
Red Colombiana de Semilleros de Investigación	EMBARRASSING STORIES	SOFIA NARANJO AVILÉS
		ANGELO DANIEL PATTI CUMARE
Red Colombiana de Semilleros de Investigación	CHILDRENS DIDACTIC SONGBOOK: A TRAINING PROPOSAL IN THE TER	MEIBY JULIET MENDEZ ALVIS
		VANESSA ALEXANDRA ZAPATA BAEZ
Red Colombiana de Semilleros de Investigación	EVALUACIÓN DE LA FACTIBILIDAD DE TRANSFORMACIÓN DE LOS FRUTO	MARÍA PAULA MARÍN DIAZ
		EMANUEL BEDOYA GALLEGO
Red Colombiana de Semilleros de Investigación	CARCINOS	TOMAS DUARTE PINZON
Red Colombiana de Semilleros de Investigación	CHARACTERIZATION OF THE NUTRITIONAL STATUS OF THE POPULATION	DANIEL JOSÉ RIASCOS RENTERÍA
Red Colombiana de Semilleros de Investigación	FROM THE CLASSROOM TO THE HOME. THE EDUCOMMUNICATIVE PRACTIC	MARIA ISABEL MORENO CARMONA
Red Colombiana de Semilleros de Investigación	NEUROMARKETING AND ITS RELATIONSHIP WITH THE PROFESSIONAL	LAURA ALEJANDRA URREA QUINTERO
Red Colombiana de Semilleros de Investigación	SUSTAINABLE PRODUCTIVE ALTERNATIVES AS A TOOL FOR LOCAL DEVE	DANIELA VILLAMIZAR VELANDIA
Red Colombiana de Semilleros de Investigación	ANALYSIS OF THE CHARACTERISTICS AND TRENDS OF ECONOMIC SECTO	JEIMY LORENA MARTINEZ VERA
Red Colombiana de Semilleros de Investigación	HAND GESTURE CLASSIFICATION USING CWT IMAGES AND EMG SIGNALS	JUAN DIEGO TRUJILLO MONTAÑA
Red Colombiana de Semilleros de Investigación	THE EFFECT OF ONE PROBIOTIC IN A TRANSGENIC MODEL OF C. ELEG	JENNIFER LORENA LOZADA LEMUS
Red Colombiana de Semilleros de Investigación	BIO'ORANGE: BIOPLASTIC PRODUCTION FROM ORANGE PEEL	YELSEI SARAY MANTILLA ACOSTA
Red Colombiana de Semilleros de Investigación	ALTERNATIVE TO COMMERCIAL PETROLEUM SORBENTS THROUGH THE USE	VALERIA SANCHEZ ZAMBRANO
		SANDRA CAROLINA RAMIREZ GIRALDO
Red Colombiana de Semilleros de Investigación	PROPOSAL FOR THE OPTIMIZATION OF THE WASTEWATER TREATMENT	MARIANA CARVAJAL FLOREZ
		LUISA FERNANDA ROMERO GOMEZ
Red Colombiana de Semilleros de Investigación	SANITARY AND GENETIC ANALYSIS IN DAIRY CATTLE WITH EMPHASIS	SEBASTIÁN LOSADA VARGAS
Red Colombiana de Semilleros de Investigación	THE NEW ADVERTISING STRATEGY: INFLUENCER MARKETING IN COLOMB	ANA MARIA ZULUAGA ARANGO
		LAURA MARCELA PEREZ CANTILLO
Ministerio de Ciencia, Tecnología e Innovación	INCLUSION IN SCHOOL: PROTOTYPES AND STRATEGIES FOR BUILDING	ANDREA JULIANA QUINTERO MELO
		HEYDI YINETH URREA LAGOS
Ministerio de Ciencia, Tecnología e Innovación	THE VERIFICATION OF THE PEACE AGREEMENTS IN HAVANA, CUBA	MARILYN YULIETH BERNAL CASTAÑEDA
Red Colombiana de Semilleros de Investigación	URBAN AGRICULTURE FOR SUSTAINABILITY IN COMMUNE 13, MEDELLÍN	LAURA LÓPEZ JARAMILLO
Red Colombiana de Semilleros de Investigación	ANALYZING COLOMBIAN AIR FORCES ROLE IN SDG 11S FIFTH TARGE	JULIAN EDUARDO TRUJILLO GORDON
Red Colombiana de Semilleros de Investigación	DIGITIZING OUR HISTORY	CAROLINA ACEVEDO CÁRDENAS

Organisation	Project name	Participants
Ministerio de Ciencia, Tecnología e Innovación	EVALUATION OF THE EFFECT OF TWO FLOWERING ACTIVATORS	BRAYAN ANDRES GARCIA CHALARCA
		LUISA FERNANDA AEDO ROCCA
Ministerio de Ciencia, Tecnología e Innovación	PROTOTYPE FOR OBSERVATION AND MONITORING OF POLLINATORS	ABIGAIL VARGAS BARRIOS
		JUAN PABLO HIGUERA MESA
Ministerio de Ciencia, Tecnología e Innovación	FEED YOUR IMAGINATION BY PLAYING AND CREATING DIGITAL CONTEN	SAMUEL ANDRÉS CAMARGO GONZÁLEZ
		MARIANA PINZÓN BARRETO
Red Colombiana de Semilleros de Investigación	POSITIVE MENTAL HEALTH IN HEALTH PROFESSIONALS IN COVID-19	LUZ ANGELA SIMANCA CARRASCAL
		LIZETH GIRALDO ZULUAGA
Red Colombiana de Semilleros de Investigación	LISA ROBOT TO ASSESS PHYSIOTHERAPY EXERCISES	SARITA CEBALLOS HINCAPIE
Red Colombiana de Semilleros de Investigación	THE ROLE OF PEOPLE WITH DISABILITIES AND CAREGIVERS IN THE	STEVEN ANDRES ALFONSO GALINDO
Red Colombiana de Semilleros de Investigación	DEVELOPMENT OF A MOBILE APPLICATION FOR BETTER ACCESS TO INF	FANY LUCILA CASTRO TORRES
Ministerio de Ciencia, Tecnología e Innovación	THE MINING CART	SERGIO ALEXANDER OSTOS FORERO
		ANDREA VALENTINA MORENO LOPEZ
Ministerio de Ciencia, Tecnología e Innovación	ELECTRONIC PROTOTYPE FOR MONITORING CROPS IN HOME GARDENS	JUAN DIEGO MONTOYA ARCILA
		JORGE ANDRÉS FLOREZ GONZÁLEZ
Ministerio de Ciencia, Tecnología e Innovación	BULLYING AT BRANCH A	JHON STEVEN BAUTISTA CALDERON
		ANGIE MARSELA PULIDO RUEDA
Ministerio de Ciencia, Tecnología e Innovación	THE FUTURE OF WATER CHANGES LIVES	LEOMARYS ANDREA DELUQUEZ RODRIGUEZ
		LIZ YAJANIS NAVARRO RODRIGUEZ
Escuela y Colegio Científico Interamericano CATIE	BENEFICIOS DE LA CENIZA VOLCÁNICA EXPULSADA POR EL VOLCÁN TU	BRIANNA FENG NIE
Escuela y Colegio Científico Interamericano CATIE	"MEJORAMIENTO DE LA CALIDAD NUTRITIVA DEL PASTO ESTRELLA (CY	MARÍA JOSÉ AGUILAR GÓMEZ

COLOMBIA



CZECH REPUBLIC



Organisation	Project name	Participants
Asociace malých debružárů České Republiky	PHYSICAL JOURNEY AROUND THE WORLD	
Asociace malých debružárů České Republiky	4R + 1E	
Asociace malých debružárů České Republiky	CHEMISTRY JOURNEY AROUND THE WORLD	

Organisation	Project name	Participants
Asociace malých debružárů České Republiky	EKO PET	
Asociace malých debružárů České Republiky	FUN ELECTROMAGNETIC PHENOMENA	
Asociace malých debružárů České Republiky	NUCLEAR FUSION - THE FUTURE OF ENERGY	
Asociace malých debružárů České Republiky	FUN PHYSICS	

Organisation	Project name	Participants
Collectif Français des Exposcences	RESCUE MANAGEMENT OPTIMIZER WITH VIDEO GAME VALIDATION	JONATHAN BONNEFOY

FRANCE



GERMANY



Organisation	Project name	Participants
Landesverband Sächsischer Jugendbildungswerke e.V.	HUGO JUNKERS – A FAR-SIGHTED GENIUS	RICK KLEIN
		LEVIN GUEHLERT
Landesverband Sächsischer Jugendbildungswerke e.V.	TELSIS TEACHER LOCATING SYSTEM IN SCHOOL	GREGOR PRADE
Landesverband Sächsischer Jugendbildungswerke e.V.	FOREST FIGHTERS	LUISA HAEHNEL
Landesverband Sächsischer Jugendbildungswerke e.V.	BRONZE CASTING IN THAILAND	COCO WOLFF
Landesverband Sächsischer Jugendbildungswerke e.V.	MEASURING LIQUID METAL FLOWS USING MAGNETIC FIELDS	KATHARINA GUDAT

Organisation	Project name	Participants
Technical Ecological Youth Project Centre Rabutz e.V.	NETWORKED 1:10 MODEL TRAIN SYSTEM AS AN IOT TESTBED	ANTON REINHARD
		BEN SOMMERER
Technical Ecological Youth Project Centre Rabutz e.V.	DIGITALISATION WITH A METAL CONSTRUCTION KIT	THEODOR PÖTZSCH
		DANIEL STROH
		NOAH MÖSLEIN
		MAX HÄRTIG



ITALY

Organisation	Project name	Participants
Manto Circular Lab	SEP - Sequential Extraction of Phytopigments and Polyphenols	ANNA CARRARO
		ALESSANDRO GRANDI
		VALENTI FLAVIO
Federazione delle associazioni scientifiche e tecniche	CITRUS PULP GAS	MANGIA CLELIA
		TESTA PULICI GIADA ANNA
		TOMMASO BALDINI
Federazione delle associazioni scientifiche e tecniche	FREE RADICALS AROUND US	GAIA PITTORI
		AMY ROSSI
		ANDREA BORRIELLI
Federazione delle associazioni scientifiche e tecniche	EXPERIMENT IN THE REMOVAL OF MICROPLASTICS	GABRIELE BUDRONI

Organisation	Project name	Participants
Manto Circular Lab	ELECTRIC E OF METALLO-PROTEINS	GIACOMO MAGNANI
		SOFA GEMENTI
		JOEL PELLEGRINI
Federazione delle associazioni scientifiche e tecniche	COPPROJECT: CYCLE OPTIMIZED OF PAPER	MALLAMO ETHAN
		DAVIDE LOLLIA
		PIETRO CICERI
Federazione delle associazioni scientifiche e tecniche	NUTRIBEAN+	NOEMI MARIANNA PIA

Organisation	Project name	Participants
MILSET Asia-Kuwait	ECOFILTER	ABDULRAHMAN A A A ALSARHAN
MILSET Asia-Kuwait	RENEWAWAVE	ADNAN A A A ALSARHAN
MILSET Asia-Kuwait	SMART CALORIMETER	MOHAMMAD A M J ALNAJEM
MILSET Asia-Kuwait	NANOMETER POLYMER SHEET THAT ABSORBS CAR EXHAUST	ABDULLAH B A S ALHADLAQ
		MOHAMMAD Y KH S A ALKAZEMI
MILSET Asia-Kuwait	MINE-DETECTING ROBOT	ABDULAZIZ KH F B ALQATTAN

KUWAIT



MEXICO



Organisation	Project name	Participants
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	PERSONAL ASSISTANT FOR PEOPLE WITH VISUAL IMPAIRMENT	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	ARMEXS V2.0	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	RESEARCH PROJECT III ABOUT PROPAGATION OF ELECTRICAL SIGNALS	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	MLST OF STENOTROPHOMONAS MALTOPHILIA STRAINS RESISTANT TO TR	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	WIFI REMOTE CONTROL TO CONTROL AIR CONDITIONING SYSTEMS	

Organisation	Project name	Participants
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	ICOS (INTERACTIVE CONCEPT SIMPLIFIER)	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	INHIBITION OF SYSTEMIC CANDIDIASIS BY PROSOPIS LAEVIGATA	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	WE CARE YOU PLUS	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	ALCOHOL FREE IGNITION	

Organisation	Project name	Participants
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	IMPLEMENTATION OF AUGMENTED REALITY TECHNOLOGY IN A MOBILE A	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	FRUIT ECO PAPER	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	THE USE OF HYDROGEN INFRASTRUCTURE AS AN ENERGY STORAGE SYST	
Red Nacional de Actividades Juveniles en Ciencia y Tecnologia (RED)	SPACE GUIDE GLOVE	
JESUS ALBERTO LOYOLA GONZALEZ	EDNA GUADALUPE RADOVICH PEREZ	
JOSE ENRIQUE MORENO ARAUJO		
LUIS DANIEL LÓPEZ CANCINO		
CRISTIAN RAZO SOTO		
Yael ZURIEL GODINES LEON	IRAN ARANE MELCHOR UCEDA	
ROBERTO ROSALES HERRERA		

Organisation	Project name	Participants
LIZBETH ESPINOSA GARCÍA	MARTÍN PALAFOX RODRÍGUEZ	
ANGEL SAID MOCTEZUMA GUTIÉRREZ	JOSÉ JORGE ALMEIDA PÉREZ	
MAX EDUARDO GARCÍA ESQUIVEL	FERNANDO TORRES RODRÍGUEZ	
SALMA SHECID ACEVES RUIZ		
ALEJANDRO GARCÍA VILLARREAL	MARIA PORFIRIA BARRÓN GONZALEZ	
GIANCARLO GUTIÉRREZ GONZÁLEZ		
KEVIN JARET RAMÍREZ PILO	ERNESTO SIERRA AVILES	
BRENDA CAMACHO MIRANDA		
ALFONSO VALENCIA JACINTO		
ROGER VALDERRABANO HIPÓLITO	ABELINO LOBATO GONZÁLEZ	
GUADALUPE ROMERO MÁRQUEZ		
FELIPE DE JESÚS ROMO HERNÁNDEZ		
EMMANUEL ROBLES SANTOS		
ERNESTO MISAEL SILVA MUÑOZ		
ANDRÉS IARIR PEREA		
LOURDES AILYN RODRÍGUEZ SERNA	LOURDES DEL ROCÍO SÁNCHEZ DELGADO	
ARLIS DE JESÚS DE LA CRUZ CASTRO		
ALAN LÓPEZ OROZCO		
LUIS ANTONIO ORELLANA ÁGUILA	ÁLVARO HERNÁNDEZ SOL	

Organisation	Project name	Participants
National Center for Scientific Skills Development	DUAL CONTROL MODE BLUETOOTH AND AUTOMATIC FIRE DETECTION	KHALID MOHAMMEDABDULLAH ALKAMZARI
National Center for Scientific Skills Development	AN AUTONOMOUS MECHANUM WHEELED ROBOTIC SYSTEM	ABDUL SALLAM GHARIB OBAD ALHADIDI
National Center for Scientific Skills Development	FUEL EXTRACTION SYSTEM FROM PLASTIC WASTE (FESPW)	AAMIR SALIM AAMIR ALHAIRI
National Center for Scientific Skills Development	DETECTING AND STOPPING NETWORK SCANS WITH PACKET SNIFFING TECH	MOAMIN MOHAMMED NASSER ALHAMOODA

OMAN



PARAGUAY



Organisation	Project name	Participants
Colegio Privado Bilingüe Girasoles	CINNAMON REPELLENT	MARCOS KEITO NAKAMURA
Asociación de Profesionales de Ciencias y Tecnología de Capital	ECO SHAMPOO BASED ON YBOPE AND TYPYCHA HU	González Maciel Bell Ahilyn
		Cáceres Samaniego Reinaldo Samuel
		Recalde Leguizamón María José
Colegio Privado Bilingüe Girasoles	POLYSTYRENE BASED VARNISH AND FILLER GLUE	AUGUSTO VILLANUEVA DUARTE
Colegio de San José	Ecological, natural and free of parabens and fluoride homena	FAENZA MONTE DOMECQ BELLINO
Asociación de Profesionales de Ciencias y Tecnología de Capital	Reproduction and management of Californian worms	GABRIELA NAHIR DUARTE NUÑEZ
		EVER MAURICIO ACOSTA QUIÑONEZ
		MILENA JAZMIN PAREDES BENÍTEZ
Colegio de San José	RECIPES WITH PEUMUS BOLDUS	MANUEL ALEJANDRO DE ISASA MARTINEZ
		RAMIRO MARTIN ESCOBAR GONZALEZ
Colegio Privado Bilingüe Girasoles	WHAT HAPPEND IN THE CAGE?	ANISA MANSURI SOLANO
Asociación de Profesionales de Ciencias y Tecnología de Capital	CREATION OF AN INSTITUTIONAL WEB PAGE	TOBIAS MARCELO MELGAREJO LEDESMA
		ARACELI NOEMI DEVACA PAVON

Organisation	Project name	Participants
Consejo de Ciencia y Tecnología Global	ANALYSIS OF CLIMATE CHANGE DATA IN THE DEVELOPMENT OF GREEN	KYARA MAYTE CIELO CAMACHO LOZADA
Consejo de Ciencia y Tecnología Global	PERCEPTION OF SOLID WASTE MANAGEMENT AND DIDACTIC STRATEGIES	ALEXANDRA CELESTE TORRES ARAGON
		ANTONELLA WARTHON PAMPAMALLCO
Consejo de Ciencia y Tecnología Global	SUSTAINABLE PEST MANAGEMENT DURING THE COASTAL EL NIÑO PHENOMENON	ZUMY MELODY MEJIA ZUÑIGA
Consejo de Ciencia y Tecnología Global	MEASUREMENT OF THE COASTAL NIÑO PHENOMENON ON THE ENTOMOLOGICAL	FABRIZIO RAI CALIZAYA ALVAREZ

PERU



PORTUGAL



Organisation	Project name	Participants
Fundação da Juventude	POPPYINK 2.0 THE SUSTAINABLE PEN	SOFIA GAMA SILVA GOMES
		CAROLINA DE JESUS MIRANDA
		MATILDE PINHO ALVES

PUERTO RICO



Organisation	Project name	Participants
Jovenes Cientificos de Puerto Rico	WATER CONSUMPTION REDUCTION USING A SELF-MADE ARDUINO AUTOMA	HUGO FERNANDO CORDOVA DE VARONA



KATAR



Organisation	Project name	Participants
Qatar Science Club	ACTIVE STIFFNESS END EFFECTOR USING LMPM SURGER	ALI HAMAD AL-HAMADI
Qatar Science Club	USING LIGHT TO TRANSFER DATA	JASSIM ESSA AL-SHAMIRI
Qatar Science Club	SMART FISHING NET	OMAR MOHAMMED AL-EMADI
Qatar Science Club	RESPONSIVE AIR QUALITY HEALING APPARATUS (RAHA)	SAAD NASSER ALKUWARI

ROMANIA



Organisation	Project name	Participants
MILSET Romania	EVERYDAY PHYSICS	SERBAN CHRISTIAN
		PISCANU MARIA
		MILITARU TEODORA-AMALIA
		VOICU DALIA-ELENA
MILSET Romania	HYPOTHESIS REGARDING THE SOURCE OF EARTH'S MAGNETIC FIELD	ANGHEL MIRUNA TEODORA
		MURESANU IOANA
		PETCU SEBASTIAN-FLORIAN
		SIMIONESCU LARA-IOANA

RUSSIA



Organisation	Project name	Participants
All-Russia Movement of creative teachers "Researcher"	PTEROSAUR AZHDARCHID ABILITY TO FLY	PETR MENSHIKOV

SLOVAKIA



Organisation	Project name	Participants
Asociácia pre mládež, vedu a techniku	WHAT WAS REVEALED BY MICROANALYSIS OF HONEY AND HONEY FOAM	MATEJ KMEC
Asociácia pre mládež, vedu a techniku	ROLE OF ALPHA-SYNUCLEIN IN THE ORIGIN OF PARKINSONS DISEASE	IZABELA MÁRIA HAŠKOVÁ
Vedecká Hračka	SPACE CLEAN-UP	LUJZA LEA LAVRIKOVÁ
		JAKUB BUZALKA
Zveza za tehnično kulturo Slovenije	SYNTHESIS OF SUPERCONDUCTOR YBCO IN SCHOOL LABORATORY	NEJC GRILC
		MARK Kladnik

Organisation	Project name	Participants
MAGMA, Associació per promoure la Recerca Jove	REFORESTRY OF BURNED FORESTS THROUGH HELISEEDINGSEED PUMPS	JACOBO GONZÁLEZ CUQUEJO
		ALBA PÉREZ GÓMEZ
		SARAI GONZÁLEZ SOBRINO
MAGMA, Associació per promoure la Recerca Jove	A NEW FUTURE FOR SPINAL CORD INJURIES: THE CELL THERAPIES	ESTEL GUBIANES ALCEDO
Instituto de Investigaciones Científicas y Ecológicas	ASTROSPHERO: HOW TO TEACH ASTRONOMY WITH EDUCATIONAL ROBOTIC	MARTÍ CASALS ESPINOSA
Instituto de Investigaciones Científicas y Ecológicas	STUDY OF SHADOW FUNCTIONS: RATIONAL FUNCTIONS	PABLO CONDE CAMPO
Instituto de Investigaciones Científicas y Ecológicas	VARIATION OF SURFACE TENSION AS A FUNCTION OF TEMPERATURE FO	ANA ALONSO HERNANDO



SPAIN



SWITZERLAND



Organisation	Project name	Participants
Schweizer Jugend forscht	USE OF CHAOS THEORY TO THE ANALYSIS OF A PENDULAR SYSTEM	TOBY JOSEPH LANE
Schweizer Jugend forscht	PLASTIC SEPARATION WITH TERAHERTZ RADIATION	SOFIE LIZ GNANNT
		LUIS NICKLAUS CÁCERES WIDMER

Organisation	Project name	Participants
National Taiwan Science Education Center	MICROWAVE FIRING OF CERAMICS WITH SELF-MADE HEAT COLLECTOR	PENG, ZI-YU
		LI, YU-CHUN
		YANG, JHONG-YU
National Taiwan Science Education Center	CRUSTACEOUS SNAPS SIGNAL MARINE ENVIRONMENTAL CHANGE	YEH, HSIN-LU

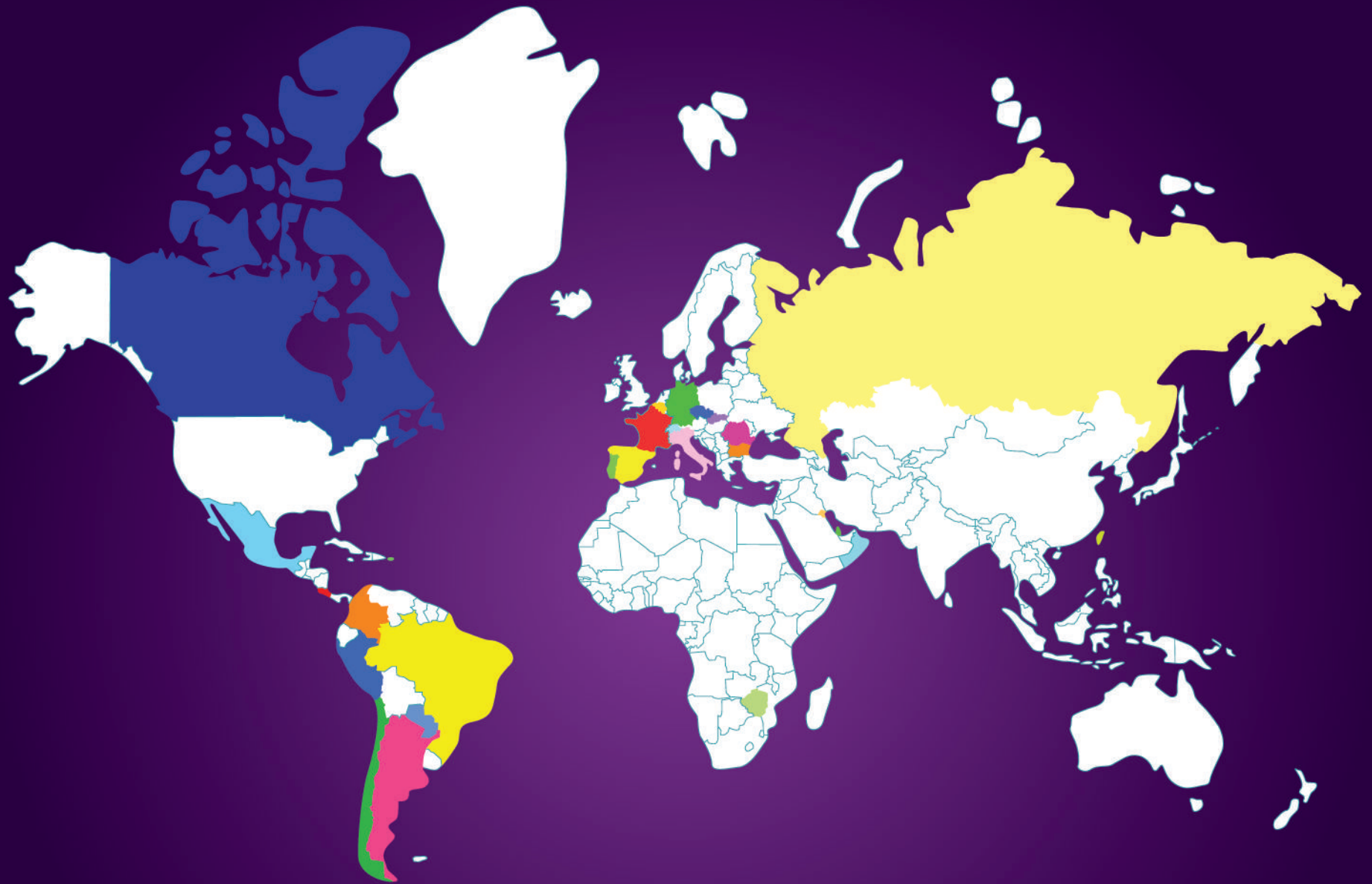
TAIWAN



ZIMBABWE



Organisation	Project name	Participants
Zimbabwe Science Fair	A WORM-TEA HYDROPONICS SYSTEM TO PROMOTE PLANT GROWTH	TAKUNDA MAPIRO



CANADA
MEXICO
PUERTO RICO
COSTA RICA
COLOMBIA
PERU
CHILE

ARGENTINA
PARAGUAY
BRAZIL
SWITZERLAND
PORTUGAL
SPAIN
FRANCE

BELGIUM
ITALY
GERMANY
CZECH REPUBLIC
SLOVAKIA
RUSSIA
TAIWAN

ROMANIA
QATAR
OMAN
KUWAIT
ZIMBABWE
BULGARIA

11

MILSET Leader Congress

The MILSET Leaders Congress (LC) is an activity developed in the frame of the Expo-Sciences International – ESI 2023, dedicated to providing a sharing-experience discussion space between member organizations worldwide and opportunities to learn new skills.

Convinced of the high impact that youth supervisors and members' leaders in STEAM activities have on youth development, it is highly required to provide proper spaces to facilitate STEAM tendencies exchange.



Jorge Sotomayor

"NASA's STEM Resources"



Alexey Obukhov

"Expedition as a part of an activity-based approach to explore the world: overcoming distances and borders"



Marisol del Toro Orozco

"Circular Movement: A New World of Opportunities for the Circular Economy"



Víctor Segura

"Artificial Intelligence in the real world: how Google Cloud, App Sheet and Bard are changing the world"



Vladimir Bozhilov

"Searching for Exoplanets in Bulgaria: the EXO-RESTART Project"



Andrés Farías

"Talent Land: Training Talent through Challenges"



Yvonne Guevara

"Emotional Intelligence as a training tool in the classroom and at home"



Richard Myhill

"Thinking outside the classroom, the value and importance of attending science fairs and camps"

The Organizing Committee is very grateful to all Lecturers and Participants, as well as RhD. Daniel Mayorga Serna and students Diego and Rodrigo Romero Corvera, all of them volunteer moderators of the Leader Congress.

12

MILSET Young Citizens Conferences

What is YCC?

YCC is a MILSET activity part of the ESI program, dedicated to the views and concerns of youth regarding the social impact of science and technology on the modern world.

The exponential growth of new technologies and scientific knowledge has generated new and exciting possibilities; however, this has also raised new ethical, social, and ecological issues. We believe that the open-mindedness of young scientists, combined with their sense of social responsibility, can yield essential contributions to the dialogue. The primary goals of these conferences were achieved through round table discussions implementing a three-step methodology: Concerns, Discussion, and Actions.

Every two years MILSET presents a topic to discuss by youth worldwide. The 2022 – 2023 topic was “Our Future in Space”



Who participated?

An open invitation was extended to ESI 2023 participants aged 15 to 25 and those interested in the activity registered in becoming YCC Ambassadors.

The Program

Date: October 24, 2023

Time: From 10:00 to 13:00 hrs.

Welcome Speech:

MILSET President, Mr. Roberto Hidalgo
MILSET Special Advisor, Mr. Eugenio Urrutia

Space Experts Talks:

MILSET President, Mr. Roberto Hidalgo
MILSET Special Advisor, Mr. Eugenio Urrutia



Mr. Jorge Sotomayor

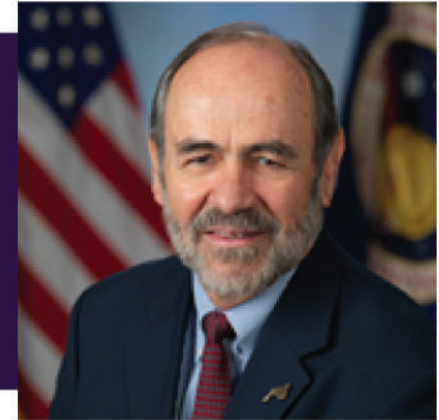
Research Portfolio Manager, and lead of the STEM Sphere within the Research Integration Office in the International Space Station (ISS) Program, NASA

Presenting: "Space Jobs"

Carlos Fontanot

International Space Station Imagery Manager,
Chair of the ISS Imagery Working Group, NASA

Presenting: "International Cooperation"



Livette Santiago

Environmental Engineer at NASA Johnson Space Center,
Greening & Restoring our World (GROW) ERG Co-Chair, NASA

Presenting: "Space Debris"

Charles Galindo Jr.

Research professor for UPAEP Department of Bionics, Aerospace, and Mechatronics

Presenting: "Future Exploration Strategies"



Vladimir Bozhilov

Associated Professor at the Department of Astronomy,
Faculty of Physics at Sofia University, Bulgaria

**Presenting: "Searching for Earth 2.0:
The Future of Humankind in Space"**

YCC Ambassadors discussion sessions

The Results

236

Invitations

Participants from more than 19 Countries

70

6

International Experts Talking about Space Topics

Hours to accomplish the YCC challenge

3

Throughout the YCC 3-step methodology: Concerns, Discussion, and Actions the YCC Ambassadors discussed the following.



Question:

“How do we balance our desire to explore space and our need to resolve the issues on Earth?”

The Ambassador's Agenda consisted of:

- Discussion
- Poster presentations preparation
- Poster presentation
- Poster update presentation
- Feedback from experts





RODRÍGUEZ GUADALUPE	Argentina	
MIGUEL MARTINS	Brazil	
NIKOLETA KALINOVA	Bulgaria	
ALEKSANDRA CHAVDAROVA	Bulgaria	
NIK ARTSIMENIA	Canada	
STERLING HUANG	Canada	
EUNJO AN	Canada	
OLIVIER LAFLEUR	Canada	
AKRAM TAHAR	Canada	
MARIANE ANGERS	Canada	
JASMIN PELLETIER	Canada	
AFAQ VIRK	Canada	
CINDY CHENG	Canada	
HOOMAN REZA	Canada	
ADARA SHILLING	Canada	

JACOB E. SANTANDER	Chile	
FRANCISCA I. QUIJADA	Chile	
MARTINA F. ARREDONDO	Chile	
NICOLE F. NAHUM	Chile	
JENNIFER L. LOZADA	Colombia	
JULIAN E. TRUJILLO	Colombia	
MARÍA P. MARÍN	Colombia	
FANY L. CASTRO	Colombia	
LIZETH GIRALDO	Colombia	
SARITA CEBALLOS	Colombia	
JUAN D. AYALA	Colombia	
VALERIA PABÓN	Colombia	
MARÍA J. AGUILAR	Costa Rica	

YCC Ambassadors

JAKUB HORÁK	Czech Republic	
VOJTECH FOJTÍK	Czech Republic	
MILAN VENCL	Czech Republic	
SIMON JANOUSEK	Czech Republic	
JONATHAN BONNEFOY	France	
PIETRO CICERI	Italy	
DAVIDE LOLLA	Italy	
NOEMI M. PIA	Italy	
FELIPE DE JESÚS ROMO	Mexico	
ERNESTO M. SILVA	Mexico	
EMMANUEL ROBLES	Mexico	
JESUS ALBERTO LOYOLA	Mexico	
ARLIS DE JESÚS DE LA CRUZ	Mexico	
AAMIR SALIM	Oman	
MOAMIN MOHAMMED NASSER	Oman	

KYARA M. CAMACHO	Peru	
FABRIZIO R. CALIZAYA	Peru	
JASSIM ESSA AL-SHAMIRI	Qatar	
ALI HAMAD AL-HAMADI	Qatar	
OMAR MOHAMMED AL -EMADI	Qatar	
SAAD NASSER ALKUWARI	Qatar	
PETCU SEBASTIAN-FLORIAN	Romania	
SIMIONESCU LARA-IOANA	Romania	
ANGHEL MIRUNA TEODORA	Romania	
MURESANU IOANA	Romania	
SERBAN CHRISTIAN	Romania	
PISCANU MARIA	Romania	
MILITARU T. AMALIA	Romania	

LUIZA L. LAVRIKOVÁ	Slovakia	
JAKUB BUZALKA	Slovakia	
MARTÍ CASALS	Spain	
LI, YU-CHUN	Taiwan	
YANG, JHONG-YU	Taiwan	
PENG, ZI-YU	Taiwan	
YEH, HSIN-LU	Taiwan	
JUAN PABLO HIGUERA		
ANGIE M. PULIDO		
JHON S. BAUTISTA		

Final Proposals

- Establish cooperative relations between countries that help in the formation of the future professionals that will work at NASA
- Create learning strategies between education and new technologies that lead students and young people on the transition of space exploration
- Encourage subsidy programs or public-private partnerships to make space tourism more affordable.
- Create a decentralized organism that creates and regulates policies about space exploration with transparency through a board of delegates from all the nations.

The organizing YCC ESI 2023 team were:
 Activity Coordinators: Ksenia Salnikova and Stefan Dochev
 Logistic Coordinator: Liz Vela
 Delegates Assistance: Alan Gómez

13

Space Conferences

This year, we celebrated and acknowledged the remarkable progress made in the field of space exploration. We recognized the development of projects that have enriched our understanding of both our planet and distant celestial bodies. Furthermore, we are exploring the exciting prospects of future space travel and even the potential for human habitation beyond Earth's bounds.

In light of these endeavors, we extended invitations to renowned experts in the field. These experts from Mexico, the United States, and Bulgaria shared their wealth of knowledge and provided insights into the current state of aerospace development with participants and the wider audience at ESI 2023.

Program

ESI EXPO-SCIENCES INTERNATIONAL
PUEBLA MEXICO
 FROM OCTOBER 21 TO 27, 2023

BE PART OF OUR FUTURE IN SPACE!

EXPERIENCE WORLD-CLASS CONFERENCES FEATURING TOP GLOBAL SPEAKERS

DATE	TOPIC	SPEAKER	LOCATION
23 OCT	OUR FUTURE IN SPACE CONFERENCES	UPAEP CHARLES GALINDO JR	UPAEP CONVENTION CENTER ROOM 2
23 OCT	OUR FUTURE IN SPACE CONFERENCES	SOFIA UNIVERSITY BULGARIA VLADIMIR VESELINOV BOZHILOV	UPAEP CONVENTION CENTER ROOM 2
25 OCT	OUR FUTURE IN SPACE CONFERENCES	UPAEP LUIS FELIPE CORDOVA	UPAEP CONVENTION CENTER ROOM 2
25 OCT	OUR FUTURE IN SPACE CONFERENCES	MESA CARLOS FONTANOT	UPAEP CONVENTION CENTER ROOM 2

EVERYONE IS WELCOME!

esi2023.milset.org

We had an estimated 250 visitors per visit, adding up to 1000 visitors in total for the whole conference cycle.

14

MILSET Gala Dinner

The MILSET Gala Dinner marked a momentous celebration, commemorating over 35 years of extraordinary achievements and paying tribute to the visionary leaders whose instrumental contributions have rendered this organization truly exceptional. The event welcomed distinguished guests, including MILSET Authorities, ESI 2023 Head of Delegations Leaders, and Special Guests, creating a delightful atmosphere for all to savor and appreciate.



15

Cultural and Scientific Tours

National Institute for Astrophysics, Optics and Electronics

The INAOE, National Institute of Astrophysics, Optics, and Electronics, is a research center specializing in the exploration and discovery of phenomena related to astronomy and astrophysics. The institute houses various departments dedicated to the in-depth study of stars, galaxies, planets, black holes, and other cosmic manifestations. Additionally, it has research divisions committed to the development of microchips intended for integration into telescopes and cameras, aiming to isolate any interference from radio signals.

Among the standout projects is an innovative water pollution detector that utilizes light and analyzes the recovered light spectrum as it passes through the water. This initiative has left a lasting impression on all visitors and participants during their tour of the INAOE. The visits took place on the 23rd and 25th days, with 120 participants attending, and had a duration of 2 hours and 30 minutes.



Bimbo

'Grupo Bimbo' is an integral component of one of the world's largest conglomerates in the baking industry, with diverse facilities located across the country. The visit took place at the Puebla plant, dedicated to the production of a wide array of food products, including sliced bread, buns, cookies, and cakes, among others. Employing advanced technology for mass production, the facility ensures elevated standards of quality and compliance with sanitary regulations.

Upon commencement of the tour at Bimbo, participants were briefed on the correct usage of hairnets and facemasks to preserve the integrity of the products. A comprehensive video presentation provided insights into the history and establishment of Bimbo's bakery, elucidating its evolution over the years.



Subsequently, we entered the bakery facility, where a detailed demonstration unfolded, showcasing the production processes of bread, buns, toasted bread, and various other products. Additionally, the packaging, sealing, and shipment procedures for Bimbo products were elucidated, alongside an overview of the quality assurance tests conducted to ensure the delivery of high-quality products to the market.

The visits took place on the 23rd, 24th, and 25th days, with an attendance of 150 individuals divided into groups of 50. Each visit had a duration of one hour.

After the tour, colleagues from 'Bimbo' graciously presented each participant with a bag of Bimbo products, and a group photograph was taken to commemorate the exceptional experience of gaining insight into and proximity to the production of Bimbo's products.

City Tour (Downtown)

This fascinating tour through the center of Puebla provides an immersion into the cultural and historical richness of the city. The journey begins with a visit to the imposing Municipal Palace and its majestic Council Chamber, where the architecture and historical details captivate visitors.

The next stop is the impressive Basilica Cathedral of Puebla, an emblematic monument distinguished by its splendid facade and richly ornamented interior. The visit allows exploration of the rich architectural and artistic heritage that characterizes this significant religious site.

Continuing the tour, we head to the Santo Domingo Church, another testament to Puebla's historical wealth. The magnificent Rosary Chapel, located nearby, reveals a masterpiece of Baroque architecture and an impressive display of sacred art.



To conclude the experience, we venture into the charming 'Calle de los Dulces' (Street of Sweets), where participants have time for shopping and enjoying local delicacies. This segment offers the opportunity to savor the exquisite gastronomic offerings and take home unique mementos of this unforgettable journey through the historic heart of Puebla.

These captivating tours took place over the three days of visits, with explanations provided by guides in English on the 23rd and 24th, and in Spanish on the 25th. Each group, composed of 50 individuals, had the chance to enjoy a tour granted by the City Council of Puebla, lasting approximately two hours. This guided stroll provided an enriching experience, immersing participants in the history and beauty of Puebla, culminating in the charming 'Calle de los Dulces'; shopping and tasting local delights ruled the time.

Downtown Cholula

'The visit to the center of Cholula, Puebla, is an enriching experience that immerses visitors in the rich history and culture of this charming town. Cholula, known for hosting the world's largest pyramid in terms of volume, provides a fascinating glimpse into Mexico's pre-Hispanic heritage.

The tour can start at the 'Zócalo', the vibrant heart of downtown Cholula, where the Plaza de la Concordia and the majestic Parish of San Pedro stand out as landmarks. This church, built on the pre-Hispanic pyramid, uniquely blends indigenous architecture with European influence, creating a visually striking image.

The visit to the Great Pyramid of Cholula, known as Tlachihualtepetl, is essential. This imposing pre-Hispanic structure rises discreetly above the landscape and allows visitors to explore its tunnels and learn about the rich history of the region. With its overlapping layers and imposing presence, the pyramid offers a fascinating perspective on pre-Hispanic civilization and its legacy today.

During the three days of visits, of 150 people were organized into groups. This initiative allowed participants to immerse themselves in the magnificence of Cholula, exploring its history and architectural wonders in a detailed and enriching manner.



16

MILSET Meetings

During the MILSET Expo-Sciences International ESI 2023, a series of meetings took place with the governmental bodies associated with MILSET. These meetings proved to be invaluable in fostering productive discussions and collaborations, enabling us to enhance our relationships and forge new avenues for cooperation.

The agenda of these meetings encompassed a diverse range of topics, with a particular focus on upcoming enhancements in governance and operations. Participants engaged in constructive dialogue to identify areas of improvement and develop strategies to strengthen further more MILSET's effectiveness and efficiency including its programs.

Executive Committee Meetings

During the event, the Executive Committee held several meetings (From October 22 to October 24) to discuss the near future in light of the governance period of its members. In these meetings, decisions were made regarding the new roles of the Governmental body and the Operative body. Additionally, an Interim Executive Director was appointed to ensure the achievement of operational goals within the organization.



Regional Meetings

On Monday, October 23rd, the MILSET AMLAT and MILSET ASIA regions held meetings.

MILSET AMLAT Executive Committee and MILSET AMLAT General Assembly meeting:

The MILSET AMLAT Executive Committee convened at the UPAEP T-250 room to discuss governance matters and plan activities for the future. Following this, the MILSET AMLAT General Assembly took place, where all members participated in electing the new Executive Committee that will lead the region from 2024-2025. The meeting also included discussions on the future of MILSET Expo-Sciences LatiAmerica ESI AMLAT 2024.



MILSET ASIA General Assembly

The MILSET ASIA General Assembly took place in a hybrid mode, with the MILSET Asia office providing updates on the activities conducted throughout the year. During the assembly, was discussed the option of hosting MILSET Expo-Sciences Asia 2026 in Qatar.

MILSET General Assembly



The MILSET General Assembly, held on October 25 at the 'Aula Magna UPAEP', marked an extraordinary milestone, as it was the first time the event was organized in a Hybrid mode. This innovative approach allowed representatives from 33 countries and 42 organizations to come together virtually and in person, displaying the adaptability and resilience of the MILSET community.

The assembly began with a comprehensive report highlighting the accomplishments and activities carried out from 2021 to 2023. This provided a valuable opportunity for members to reflect on the progress made and identify areas for continued growth and improvement.



One of the key highlights of the assembly was the unveiling of the MILSET Strategic Plan 2024-2029, which outlined six key priorities that will shape the organization's trajectory in the coming years. This strategic plan serves as a roadmap for fostering innovation, inclusivity, and global collaboration within the STEM education community. Furthermore, the assembly introduced the new members of the Executive Committee, who bring a wealth of experience and expertise to their roles. Their dedication and commitment to MILSET's mission were acknowledged and celebrated.

The assembly also recognized the outstanding contributions of MILSET volunteers. We honored Mr. Mateus Dede from Brazil and Ms. Aisha Almeer from Kuwait for their exceptional dedication and service to the organization. Their commitment to promoting STEM education and inspiring young minds serves as an inspiration to all.



Excitement filled the air, at the time that the host city for the MILSET Expo-Sciences ESI 2025 was revealed. The proud host announced Abu Dhabi, United Arab Emirates, and after, he told that further details, including the dates of the event, would be shared shortly.

The MILSET General Assembly laid the foundation for a vibrant future for MILSET and its mission to inspire and empower young minds in STEM education.

17

MILSET Awards

MILSET Award

MILSET Award has been traditionally given to the host organization of the Expo-Sciences International since the 1st one in Canada in 1987. This year the host organization received this Award: The National Network for Youth Science and Technology Activities – 'La REDMex'.

Derek Gray Medal

The Derek Gray Medal was presented, during the MILSET Expo-Sciences International, It was for an individual outstanding contribution to the movement and its activities or the long-term investment of an individual to the movement. This award has been created in memory of Derek Gray from South



Enrique Padilla Award

The Enrique Padilla Award was presented, during the MILSET Expo-Sciences International ESI 2023, to a delegation participating at the current ESI while having struggled to bring as many young participants as possible despite difficult conditions. This award has been created in memory of Enrique Padilla from Argentina and was given to MILSET Romania



MILSET Volunteer Award

The MILSET Volunteer Award was presented every odd year to young volunteers as recognition of their values, passion, and commitment to promoting and supporting science and technology education for youth. The winners of the 2023 edition were Miss Aysha Almeer from Kuwait, who exceptionally volunteers at MILSET Asia, and Mr. Mateus Alex Barbosa Dedê from Brazil who has been an exceptional volunteer at MISET AMLAT.





ESI Cultural Award

The Cultural Award was presented during the MILSET Expo-sciences International, to a delegation participating at the current ESI. This award was presented to the delegation whose performance during the ESI cultural evening shows preparation, practice, and full participation of the delegation while reflecting the unique culture of their country. The award for Best Stage Performance was given to Movimento pela Ciência e Aprendizagem Brasil and Feria Nordestina de Ciencia y Tecnología and the Best Country Booth was given to National Taiwan Science Education Center.

ESI Best Delegation Award

The Best Delegation Award is presented, during the MILSET Expo-Sciences International, to a delegation participating at the current ESI. This award should recognize, among other qualities of the delegation, their exemplary behavior and their openness toward other cultures. The Youth Science Canada Delegation won this Award.



18

MILSET Activity

**MILSET Executive Committee
Lunch Meeting with UPAEP
Authorities at AROMBO
Restaurant.**



**MILSET Executive Committee
and invited guests visit to
Baroque's International
Museum.**

19

Cultural Activity

The MILSET Cultural Event was a vibrant showcase of diversity and cultural exchange.

The event was held on October 26, at the UPAEP Convention Center, and featured two distinct forms of participation, starting with country booths where 10 nations proudly presented their unique cultures, customs, and traditional attire and cuisine.

Delegates had the opportunity to immerse themselves in the rich heritage of these countries, interact with representatives, and savor the flavors of their traditional dishes while a DJ created a perfect atmosphere.

Additionally, the stage came alive with captivating performances by 14 delegations from 13 countries. Through their mesmerizing traditional dances, these talented performers not only entertained the audience but also imparted knowledge by teaching a few words in their native languages. Their enchanting displays of customs and traditions left the audience in awe, fostering a deeper appreciation for the world's cultural tapestry.





20

Closing Ceremony

At the Closing Ceremony, we concluded ESI 2023 with a captivating flourish an experience that left an indelible mark, enriching us through the vibrant coexistence with young talent from across the globe.

Over 800 individuals assembled for this momentous occasion, contributing to the culmination of 5 days filled with scientific exploration, cultural exchange, and recreational engagement.

We thoroughly enjoyed the exceptional program and we wish to commend every individual element that contributed to its excellence.

- **Keynote speech by Jorge Sotomayor, Livette Santiago, and Carlos Fontanot from NASA**
- **MILSET's presidential speech**
- **MILSET Awards**
- **Awarding Ceremony, the moment where we recognize the effort of every delegate, supervisor, and head of delegations, as they receive the MILSET ESI 2023 medal.**
- **Organizing Committee Award**
- **Flag handover to the ESI 2025 Organising Committee (ACTVET - Abu Dabi, UAE)**



21

Mexican Party

The Mexican party was a small taste of what Mexican culture is. The event took place on October 26 at the UPAEP Convention Center, here the delegates were able to delve a little deeper into Mexican culture through games, sweets, toys, dances, and music from Mexico.

At this event, the delegates could interact in the different stands where they could play and win prizes such as sweets or Mexican toys. Likewise, on stage, there was excitement to see the dancers delight us with Mexican dances accompanied by the mariachi who together managed to some delegates dare to dance.

The delegates had the opportunity to experience a party, specially made for them for the; it permitted to present our country much better. There, there was a lot of excitement on the part of the participants when they saw the dancers with their striking costumes, as well as saw them play and being able to win prizes that will remind them of their participation in ESI 2023.





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Social Media Impact

Over 30 posts were posted on the MILSET social media accounts. All the content produced was posted on Facebook, Instagram, Linked In, and Twitter, supported since the beginning by our main partner for local promotion, UPAEP's Institutional Communication Department. Banners, videos, live transmissions, press conferences, and radio interviews were planned as part of the communication plan.

Tree Press conferences were also held at UPAEP's facilities and through their External Communication Department; we were able to attend five radio interviews before the event.

Content in Spanish was also made to be shared on the 'REDMex', UPAEP, and local media.

LIVE transmissions were supported by the MILSET IT department and covered the opening and closing ceremonies, these main events were the MILSET community across the globe had the opportunity to be amazed by.



Post views: 75,697

Video views: 6,897

LIVE views: 1,987



Video views: 1,879

LIVE views: 3,107



Scope: 2,987



Stay conected with us!