

AESS -2022

Aerospace and Electronic Systems Society

COLOMBIA CHAPTER 



Presidente: Ing. Giovanna Estefanía Ramírez
Vicepresidente: Ing. Germán Cabuya Parra



APDYA
Aerospace & Electronic Systems Society
Colombia Chapter



OBJECTIVES

- ✓ Increase the degree of interest and participation of students and professionals in the Aerospace topic in Colombia, increasing their knowledge and facilitating the production of innovative ideas that contribute to the development of the Aerospace sector in the country and the world.
- ✓ Strengthen the AESS chapter in Colombia



International presence



- We are the Colombian Chapter of the Society of Electronic and Aerospace Systems of the IEEE (Institute of Electrical and Electronics Engineers).
- We promote the social appropriation of aerospace science, technology and innovation.
- We organize and publicize innovation challenges, events, courses and activities to develop skills and creative ideas, to promote projects in the Colombian aerospace sector.
- We promote the space race in Colombia.

Colleges and universities



STRATEGIES



MEMBERSHIPS



Encourage the acquisition of chapter membership, based on the opportunities offered by this society and its added value.

Increase interest in the creation of the AESS chapter in the student branches and in the country's educational institutions.

ALLIANCES



Establish strategic alliances with public and private entities of the Aerospace sector in Colombia.

DISSEMINATION



Build a periodic communications scheme for members of the society

Participate and carry out events, training, technical outings and activities in order to acquire and expand knowledge that contributes to the professional development of the members.

PROFESSIONAL DEVELOPMENT



Motivate the participation of members in international events such as: Annual Aerospace Conference and Annual Radar Conference

RESEARCH



Promote and disseminate research based on innovation projects in the area



NUMBERS ABOUT CHAPTER

—



AESS ETITC 2020



Creation of 08 new branches - chapters of AESS in Colombia



Aerospace events 2021

Drone



August 2021

Satellites



October 2021

Space robotics



November 2021

ZAGI AESS RACE

Agosto 2021



¡Inscríbete ya!



Results

- **280 competitors**
- **750 attendees**
- **13 companies**
- **5 state entities**
- **2 Industry companies**
- **8 sponsors**





COMPETENCIA DE UAVs

¡Inscríbete ya!





ZAGI AESS RACE
Julio 2021

Dirigido a grupos de investigación de colegios, universidades y demás aplicando visión artificial y algoritmos de control de vuelo

- ✓ Costo de la Inscripción: \$250.000
- ✓ Equipos de máximo 10 integrantes
- ✓ Increíbles premios para los ganadores

AESS COLOMBIA



Objetivo

El proyecto tiene como fin acelerar el avance tecnológico de UAVs (**Unmanned Aerial Vehicle**) en el país a partir de competencias que permitan la generación de nuevas tecnologías.

Drones de ala fija

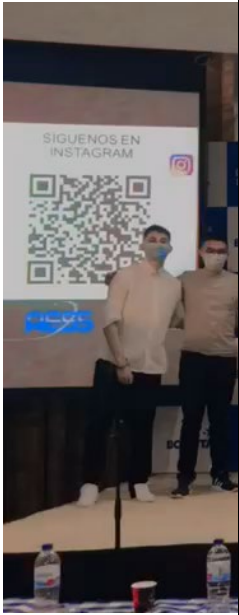


Autonomous aircraft construction course with artificial intelligence



Autonomous and radio-controlled aircraft competition





CANSAT-type satellite competition



The poster features the title 'CANSAT COLOMBIA' in large orange letters at the top left, with the 'AESS' logo and 'Aerospace & Electronic Systems Society Colombia Chapter' text at the top right. On the left, a white satellite canister is shown with a parachute. In the center, two photos of students are displayed: a boy wearing a black face mask and holding a satellite canister, and a girl with glasses smiling. Below the photos, the text 'INNOVATION CHALLENGE' is written in white. At the bottom left is a QR code, and at the bottom center, the dates '2021 OCTOBER 1 AND 2' and the registration website 'aesscolombia.blogspot.com' are listed. The 'World Space Week COLOMBIA' logo is at the bottom right.

CANSAT
COLOMBIA

AESS
Aerospace & Electronic Systems Society
Colombia Chapter

INNOVATION CHALLENGE

2021
OCTOBER 1 AND 2

REGISTRATION:
aesscolombia.blogspot.com

World Space Week COLOMBIA

INNOVATION CHALLENGE CANSAT COLOMBIA 2021

- **270 competitors**
- **550 attendees**
- **13 companies**
- **5 state entities**
- **9 sponsors**

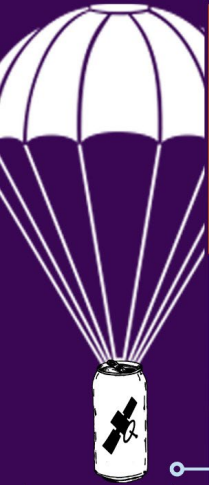


CANSAT

COLOMBIA

AESS

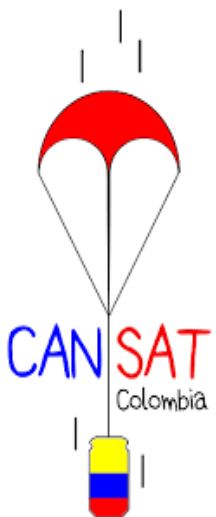
Aerospace & Electronic Systems Society
Colombia Chapter



INNOVATION CHALLENGE

2021
OCTOBER 1 AND 2

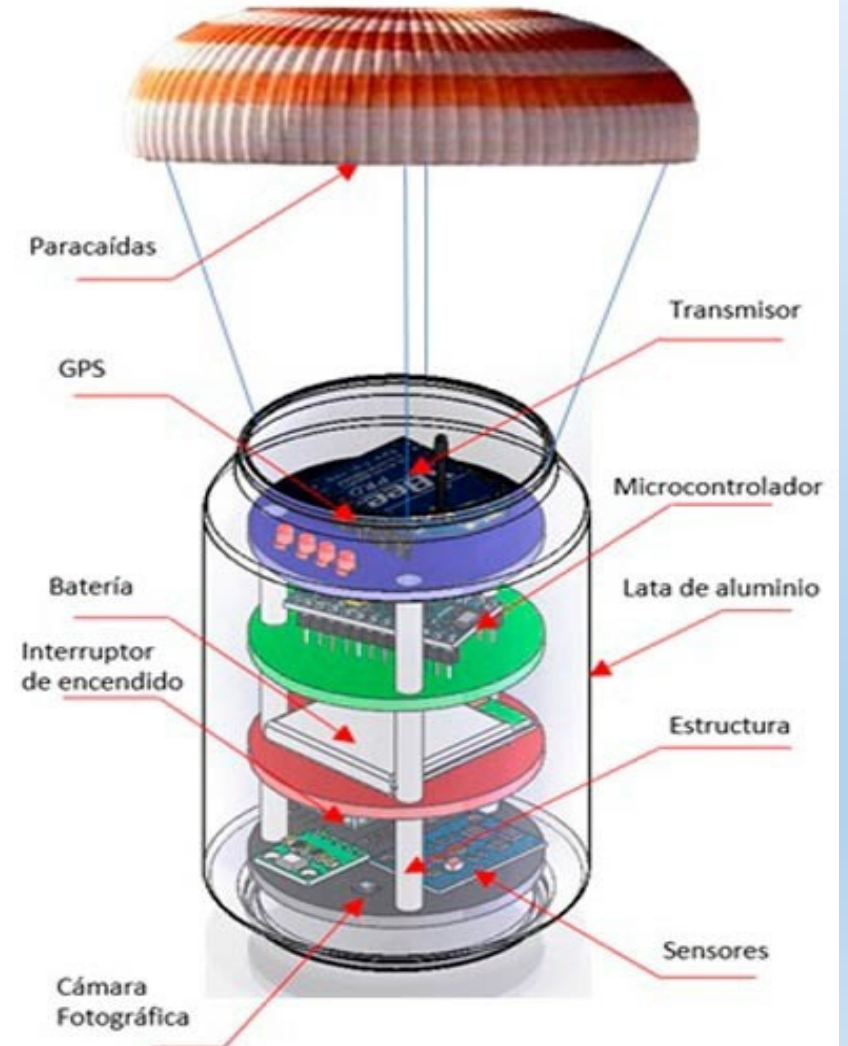
REGISTRATION:
aesscolombia.blogspot.com



COMPETENCIA DE SATÉLITES CANSAT

OBJETIVO

Los retadores deben construir un CANSAT y hacer un programa de vuelo para cumplir una de las siguientes misiones: **Misión Sabio Caldas**, **Misión Nicola Tesla** o **Misión de cardiosatélite (Reynolds)**.



CANSAT-type satellite competition



Concepto de misión

HELIOSPECTRUM

TIEMPO / 08:39

SATELITE / HELI0513

AESS Aerospace & Electronic Systems Society Colombia Chapter

Juan Jose Mejia Gonzalez

AESS

GABRIELA
GABRIEL
PAOLO LEYD
ALFA Y OMEGA
STAR LORDS

EQUIPO / Código Fuente

TIEMPO / 00:00

CANSAT COLOMBIA 2020

AESS

JURADO / Leonardo Gómez

MODERADOR / Ronald Guitierrez

JURADO / Fernando Jimenez

JURADO / Carlos Alva

JURADO / Ricardo Cortes

JURADO / Rosa María

CANSAT COLOMBIA 2020

AESS Aerospace & Electronic Systems Society Colombia Chapter



EQUIPO MINUCANSAT



no...
Suboficiales de la Fuerza Aérea y de...
pocos metros de la pista de aterrizaje...
del comando aéreo de mantenimiento...
pocos kilómetros de la cabecera de la p...
Aeropuerto Catalina Dorado



Tutor: WILMAR R.

Space Robotics competition


ROVER LATIN AMERICA INNOVATION CHALLENGE 2021

NOVEMBER 11
8 AM - 11 AM
LIVE ON-LINE!


AESS

PREMIO PLACA AL MERITO INNOVADOR IEEE AESS

LIVE ON-LINE



TRANSMISION EN VIVO
YOUTUBE GDT ROBOTICA



RETO DE INNOVACIÓN
ROVER LATINONAMERICA
aesscolombia.blogspot.com

Invitan:



Semana Internacional de la Ciencia y la Paz

Aerospace & Electronic Systems Society
Colombia Chapter

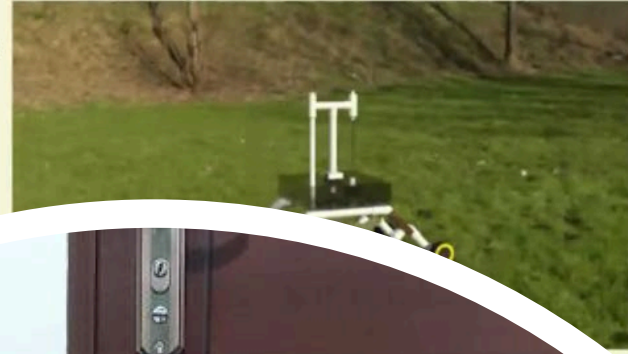
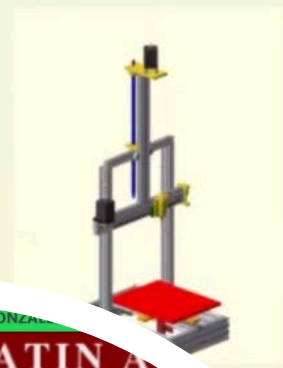


- 90 competitors
- 350 attendees
- 15 companies
- 4 state entities
- 7 sponsors



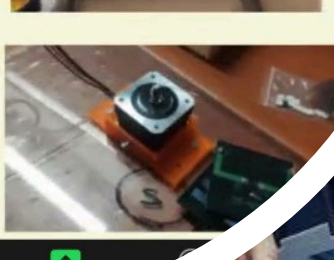
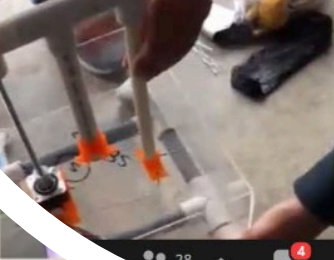
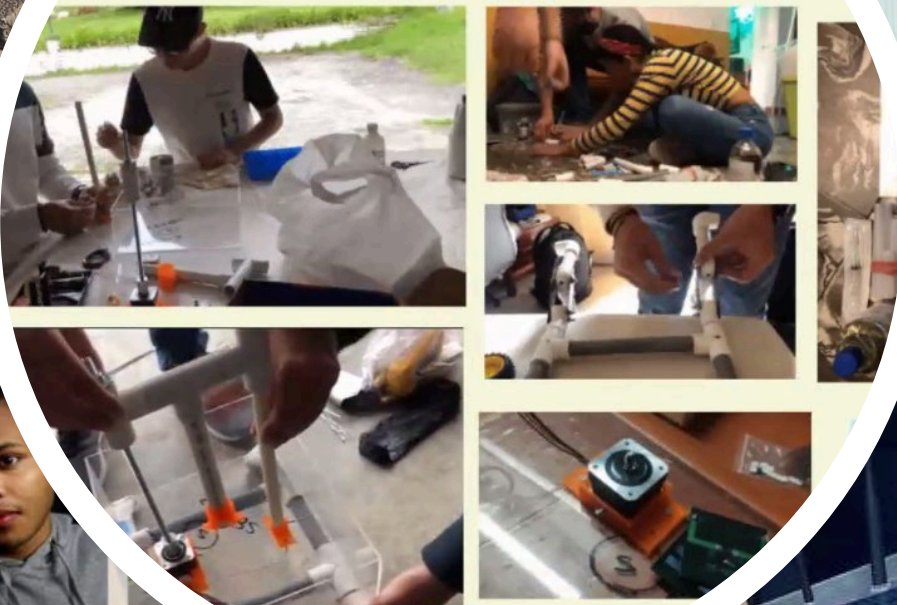
Sembrado

ma
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el



ROVER LATIN AM

Construcción



Victor Manuel
Macias Martínez
Est. ing.
Electrónica y Tel

Diego
Fernando
Rivera Vasquez
Ing.
Mecatrónica

Juan Manuel
Parra Casagua
Est. Ing
Electrónica y
Tel.

Juan Sebastian
Orozco Monje
Est. Ing
Electrónica y
Tel.

Alejandro
Zuñiga Melo.
Est. Ing Fisica.



Space Robotics competition

SPACE AGRICULTURAL ROVERS



Space robotics innovation challenge – Botanical Garden



Space Robotics competition

ERC
EUROPEAN ROVER CHALLENGE



Other activities AESS Colombia Chapter



SEPTIEMBRE
SPACE CAMP
Aerospace & Electronic Systems Society
Colombia Chapter
ABiertas
COLOMBIA \$70.000 POR FAMILIA
WHATS: GIOVANNA RAMIREZ 3103076125
EMAIL: aesscolombia@ieee.org.co

SPACE CAMP SEPTIEMBRE
MARTES: 14-23 Y JUEVES: 16-23 HORARIO: 5:00 P.M.
SABADOS: 11-18-25 HORARIO: 10:00 A.M.
2 HORAS POR SESION 16 HORAS DE
CONOCIMIENTO Y DIVERSION
EN ESTE CAMPAMENTO
RIFA DE OVEROL DE NASA CORTESIA DE
SPACE ACADEMY CAMP

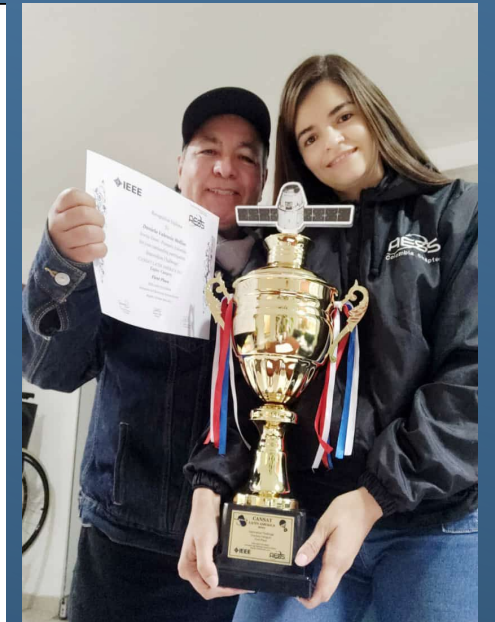
RECUERDA INSCRIBIRTE HASTA EL 17 DE SEPTIEMBRE
**EXPLORA
EL ESPACIO
CON NOSOTROS**

La Hackathon Espacial es un evento virtual que se realiza durante la Semana Mundial del Espacio - World Space Week Colombia 2021, para encontrar soluciones a distintos retos del sector.

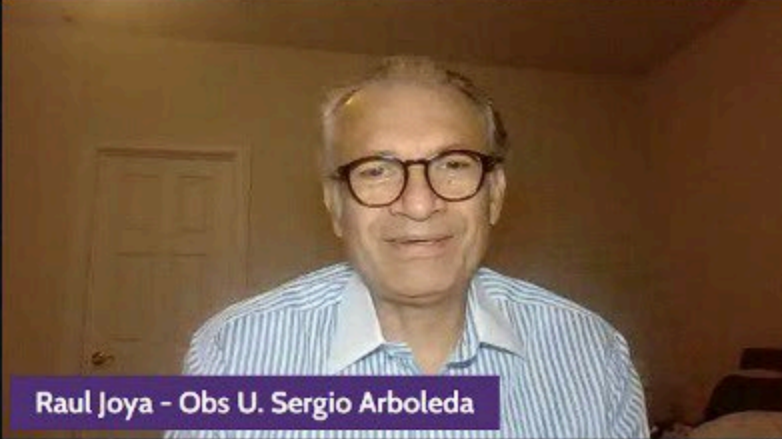
**ACOMPÁÑANOS
A EXPLORAR
EL ESPACIO**
DURANTE LA SEMANA MUNDIAL
DEL ESPACIO - WORLD SPACE
WEEK COLOMBIA 2021

48
OCTUBRE
WWW.NSWSOLOMBIA.COM
UNA PARTE DE LA COMUNIDAD
ESPACIAL COLOMBIANA

OCTUBRE 2-3-2021
NASA
**SPACE APPS
CHALLENGE**
MEDELLÍN



WORLD SPACE WEEK



Raul Joya - Obs U. Sergio Arboleda



Samuel Cadavid - Minciencias



Julián Rodríguez - Univ Industrial de Santander

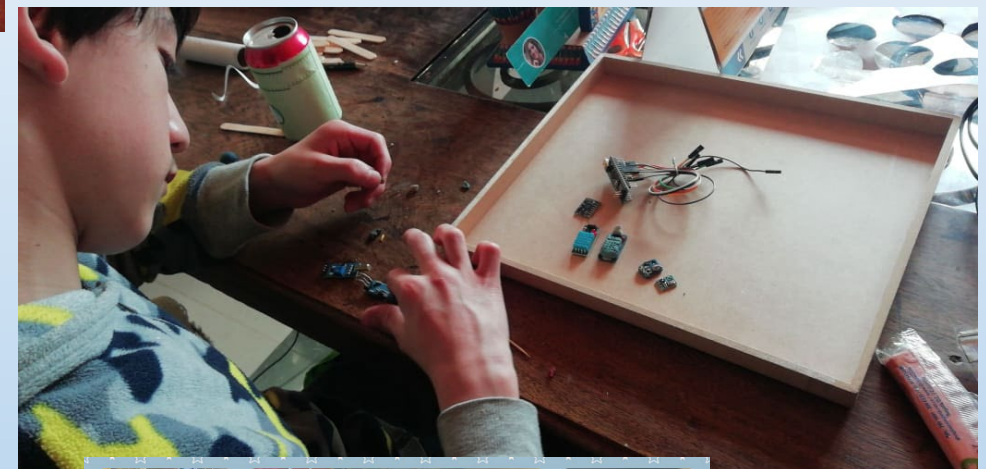
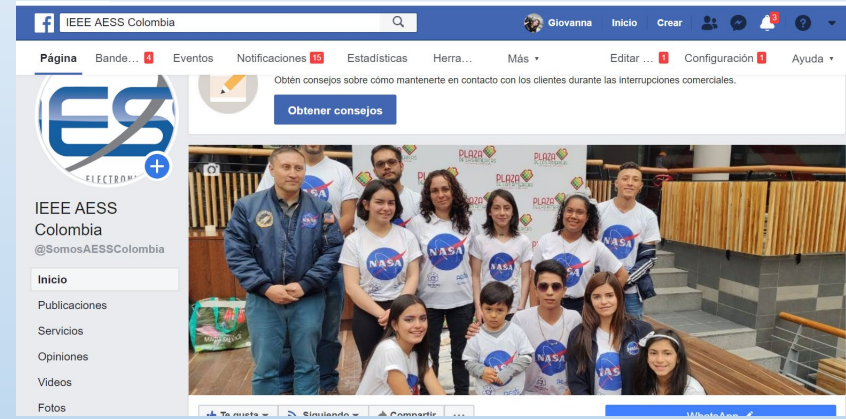


Giovanna Ramirez - AESS Colombia



Elías Montoya

Wold Space Week AESS Colombia Chapter

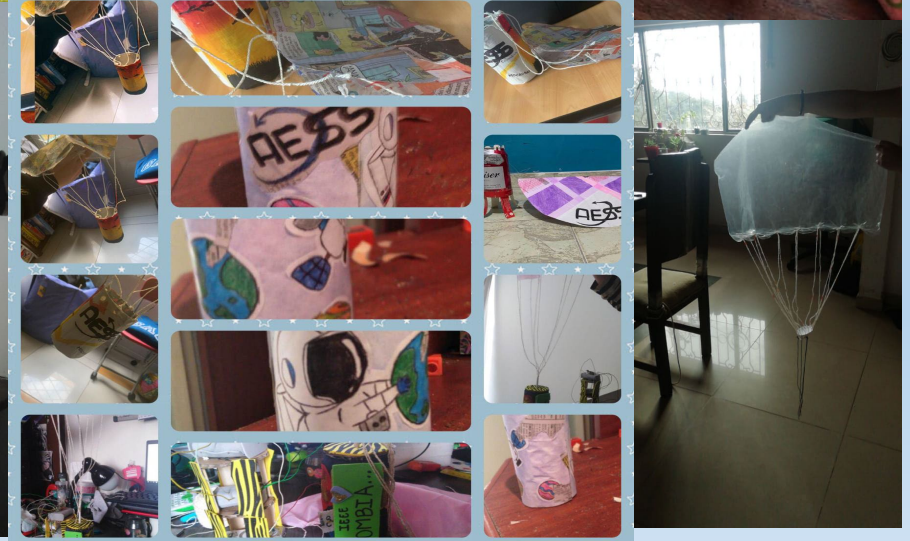


Andres Fuentes
BioSat - SAT 358
 Segundo puesto Categoría individual

Capitulo estudiantil AESS UD
Eagle eye- SAT001
 Segundo puesto Categoría Grupo

RETO CANSAT
AESS COLOMBIA

Satélite: BUENDÍA
 Placa 13-12
 #SomosAESSColombia



AESS KIDS
Activities



AESS KIDS Activities



Space Camps AESS KIDS



MARTES 25 DE MAYO 2021
5:00 p.m.

SEÑAL ABIERTA

INVITADO ESPECIAL
DAVID MATEUS



INGENIERO MECATRÓNICO

...mos años como
...rticipado como
... habitats como lo
...ation, el Infaltable
...el Mars Ocean
...empeñado como
...sistente del Mars
...ation.



LOS CERTIFICADOS LLEGARÁN EN UN
MUCHAS FELICIDADES TRIPULACIÓN
LO HEMOS LOGRADO NUEVAMENTE



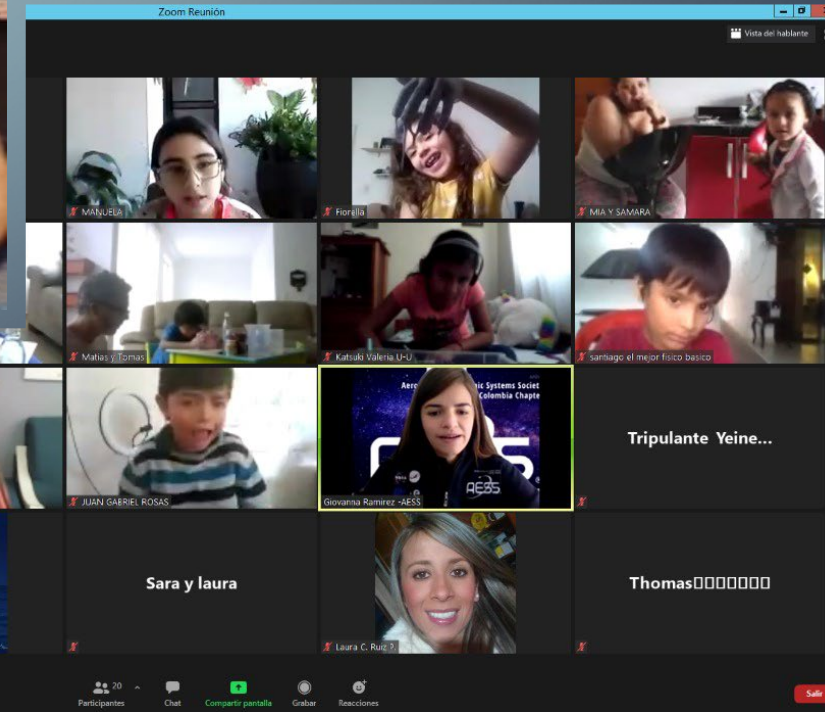
Laura Ruiz
Oficial de reserva activa -
Fuerza Aérea Colombiana



Giovanna Ramirez
Presidente de Aerospace &
Electronic Systems Society



Marco Vélez
Director de la Agencia Mexicana
de Divulgación Espacial



2021 ESTO SERA UNA LOCURA, NO TE LO PIERDAS

7

S
ILA

MARTES 22
LA CIENCIA DE
AVENGERS



JUEVES 24
JOSEFINA GONZÁLEZ
LA ABUELITA
TERRICOLA



MARTES 29
CELEBRACIÓN DE
CLAUSURA



SÁBADO 26
LILIO ALBERTO MEDINA Q.
COMO VIVEN LOS
ASTRONAUTAS EN LA ISS



VIERNES 25 EST

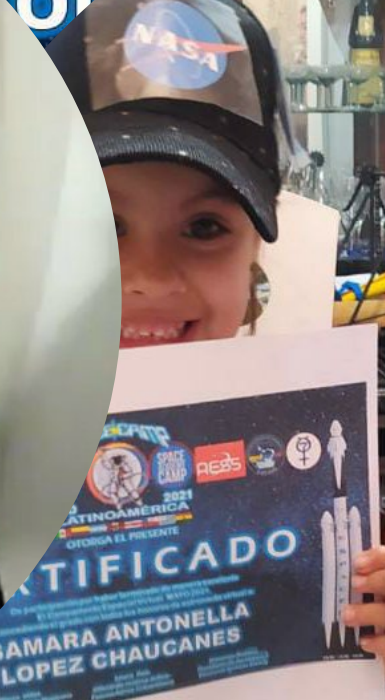
**BOBINA DE
TESLA**

5:00 P.M.



suki Valeri...






LAKE SPA NASA SPACE CAMP HEBS G-SAT 2023

MAYO LATINOAMÉRICA 2021

OTORGA EL PRESENTE

CERTIFICADO

De participación por haber terminado el
El Campamento Espacial Virtual MAYO 2021,
cediendo el grado con todos los conocimientos adquiridos.

Gabriela Star

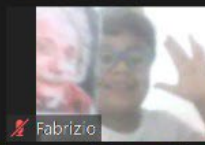
Joely Gabriela...


Astronomy Ga...

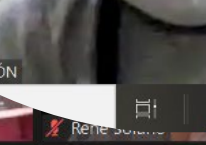
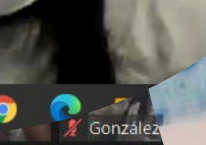
Fiorella Weshaa...



ANGIE OLARTE...











Sponsors

PATROCINIOS



ORGANIZADO POR



ALIADOS



PATROCINADO POR



Research hotbed AESS Colombia





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[**aesscolombia.blogspot.com**](https://aesscolombia.blogspot.com)



[**aesscolombia@ieee.org.co**](mailto:aesscolombia@ieee.org.co)

SÍGUENOS EN FACEBOOK

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SÍGUENOS EN INSTAGRAM

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GRACIAS



Ing. Giovanna Estefanía Ramírez