



# ACS COLLEGE OF ENGINEERING

Kambipura, Mysore Road, Bengaluru – 560074.

**Department of Aerospace Engineering**

**In Association with**

**Rocketry & Space Propulsion Club**

## **Report for The View from space competitive collaboration for space development Webinar**

<b>Name of the Event</b>	:	Webinar on “The View from space competitive collaboration for space development”
<b>Resource Person</b>	:	Mr. Luwanga Christopher (NTU, Singapore)
<b>Date &amp; Time</b>	:	24.06.2021 & 03.00 PM to 04.00 PM
<b>Platform</b>	:	Zoom.
<b>No. of Participants</b>	:	69.

### **About the Webinar**

The webinar titled “The View from space competitive collaboration for space development” was organized to enrich the knowledge of Aerospace students to get exposure on space development.

The program was started at 03.00 PM with the welcome speech by HOD/AS and followed by introduction of the resource person Mr. M. Ravi Shankar by J. Siva, Asst. Prof. ASE. The resource person handled an interactive session about the fundamentals of Space development. The resource person shared the information about the importance of the collaboration for space development between private companies and public institutions such as NASA, SpaceX and etc.

In between interaction with students and questionnaire to test the ability of students and the resource person motivated the students to enrich their skills through different case studies as it's still beginning vast domain. The students were expressed that this webinar was highly useful to them to develop their career in aerospace field. Finally, the webinar was ended with vote of thanks by HOD/AS.



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## Sample photos of Webinar

**ACS COLLEGE OF ENGINEERING**  
Affiliated to VTU, Belagavi, Approved by AICTE New Delhi and Govt. of Karnataka  
(A Unit of RajaRajeswari Group of Institutions)  
Mysore Road, Bengaluru, Karnataka.

**DEPARTMENT OF AEROSPACE ENGINEERING**  
*In Association With*  
**ROCKETRY & SPACE PROPULSION CLUB**  
*Presents Webinar on*

**"THE VIEW FROM SPACE:  
COMPETITIVE COLLABORATION FOR  
SPACE DEVELOPMENT"**

DATE  
24-06-2021  
TIME  
03:30 PM

24-06-2021  
03:00 PM

Registration Free  
<https://forms.gle/LPeXU7PsrDatTg8>  
E-Certificates will be issued

Event Coordinator  
**Mr.J. SIVA**  
Ph:8667291504

Head of the Institution  
**Dr.M.S. MURALI**  
PRINCIPAL

RESOURCE PERSON  
**LUWANGA CHRISTOPHER**  
Research Scholar, Satellite  
Research Centre II (SaRC-II)

**NANYANG TECHNOLOGICAL UNIVERSITY**  
SINGAPORE

## Invitation

The screenshot shows a Microsoft Teams interface during a webinar. The main window displays a presentation slide titled "A VIEW FROM SPACE: COMPETITIVE COLLABORATION FOR SPACE DEVELOPMENT" by Christopher Luwanga, Researcher, NTU Singapore, dated June 24, 2021. The slide features an image of a satellite. The Teams interface includes a top navigation bar with tabs for File, Home, Insert, Design, Transitions, Animations, and Slide Show. A right-hand sidebar shows a list of participants: Mukesh, Christopher Luwanga, and Yashas C. At the bottom, there are controls for Mute, Start Video, Participants (32), Chat, Share Screen, Record, and Reactions. A "Leave" button is visible in the bottom right corner. A system tray at the very bottom shows the time as 6:04 PM on 6/24/2021 and a Windows activation watermark.

## Chief Guest Introduction

Zoom Meeting

Mukesh Christopher Luwanga J SIVA Afreen Taj(1AH... Suresh D

### Outline

- My Story
  - My Journey
  - My Research
- Space Engineering
  - Main Spacecraft Components & Subsystems
  - Sample Real Life Spacecraft
- Space Science
  - Key fields
  - Key questions
- Space Applications
  - Geospatial applications
  - Travel and adventure
- Get Started
  - Tools and Apps
  - Space Community Involvement

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Participants (35)

Q. Find a participant

- Mukesh (Host, me)
- Christopher Luwanga
- 1AH18AS012 CHANDRU B M
- 1AH18AS015 kashyapa bramha v
- 1AH18AS020-Nagaraja M V
- 1AH18AS021-Nithyasri B S
- 1AH18AS023-PAREEKSHITH TG
- 1AH18AS024 Priyanka L P
- 1AH18AS032-Swetha Shree S
- 1AH18AS036-Varshith
- 1AH18AS043 Vamshi M
- 1AH19AS003 Amogh Raj
- 1AH19AS008 [ J O H N ]
- 1AH19AS010 chandan

Go to Settings to activate Windows.

Invite Mute All

## Chief Guest Address

Zoom Meeting

Mukesh Christopher Luwanga J SIVA Afreen Taj(1AH... Suresh D

The diagram illustrates the structure of space weather. It starts with the Sun on the left, showing a Flare and a Coronal mass ejection (CME). Arrows indicate the flow of Solar Energetic Particles (SEPs) and Solar wind towards Earth. Key timeframes are noted: X-ray arrival to Earth (8min), CME arrival (30min-2days), and Solar wind (30min-2days). On the right, a list of effects on Earth is shown: Astronaut's exposure, Malfunction of artificial satellites, GPS malfunction, Reroute of airline flights, Changes in radiation belt, Aurora, Geomagnetic disturbances, Ionospheric disturbances, Thermospheric disturbances, Communications trouble, and Electrical powergrid trouble. An inset on the bottom left shows the Earth's ionosphere layers (F, E, D, E1, F1, F2) and the structure of the magnetosphere.

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- 1AH18AS026 Rakshith Kumar G R
- 1AH18AS032-Swetha Shree S
- 1AH18AS036-Varshith
- 1AH18AS043 Vamshi M
- 1AH19AS003 Amogh Raj
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Invite Mute All

## Chief Guest Address