

संक्षिप्त प्रतिवेदन  
विषय

एक दिवसीय कार्यशाला

# "पृथ्वी विज्ञान में अंतरिक्ष प्रौद्योगिकी: प्रगति और संभावनाएँ"

संयुक्त रूप से आयोजित



एयरोनॉटिकल सोसायटी ऑफ इंडिया, कोलकाता अध्याय

और



क्षेत्रीय सुदूर संवेदन केंद्र-पूर्व, कोलकाता

अंतर्गत



तारीख

28 September 2024

# BRIEF REPORT

On

## One-Day Workshop on

# “Space Technology in Earth Sciences: Progress and Prospects”

*Jointly Organized by*



**Aeronautical Society of India, Kolkata Chapter**

*and*



**Regional Remote Sensing Centre – East, Kolkata**

*Under*



*on*

**28 September 2024**


## BACKGROUND


One-day workshop on “Space Technology in Earth Sciences: Progress and Prospects” was jointly organized by Aeronautical Society of India (AeSI), Kolkata Chapter and Regional Remote Sensing Centre – East at RRSC-East on 28<sup>th</sup> September, 2024. A copy of the invitation card is given in **Figure 1**.

## DESCRIPTION

The inaugural session started with the welcoming of the dignitaries to the dais, followed with the lighting of the lamp. Group Captain Tapas Kumar Ray, Chairman, AeSI, Kolkata Chapter delivered the welcome address. This was followed by the presentation on AeSI activities and the theme of the workshop by Dr. D. K. Maiti, Vice-Chairman, AeSI, Kolkata Chapter. Next, Shri Suparn Pathak, Deputy General Manager, Regional Remote Sensing Centre – East provided a brief overview on the activities of ISRO. The inaugural session also included the felicitation of the dignitaries. After high tea, Dr. Sandip Chakraborti, Director, Indian Centre for Space Physics delivered the keynote presentation on “Earth’s Vital Resources in the Space Age”. This was followed by the talk on “Space technology for Agriculture and Food Security” by Shri Suparn Pathak. After this, the first theme lecture on “Space Technology for Mineral Exploration and Energy Security” was delivered by Dr. Arindam Guha, Head, Applications, RRSC-East. Subsequently, Dr. Tanumi Kumar, Senior Scientist, RRSC-East delivered the talk on “Space Technology for Forest Studies”. Thereafter, Dr. Rajdeep Roy, Senior Scientist, RRSC-East gave the talk on “Space Technology for Ocean Studies”. All the speakers were felicitated. Dr. Tanumi Kumar delivered the vote of thanks. The programme ended with National Anthem, followed by group photography. The programme schedule is given in **Table 1**. After lunch, visit to the Exhibition Hall was arranged for all the participants. Total 79 registered participants attended the workshop (including 19 AeSI, Kolkata Chapter members, 55 students and 5 faculties from Institute of Engineering and Management, Kolkata). RRSC-East staff also participated in the programme. Proposal to conduct workshop from aeronautical society jointly with RRSC-East was received **Annexure-I** and approval from competent authorities were taken **Annexure-II**. Glimpses of the workshop are given in **Annexure-III**.

Figure 1: Invitation card





## Invitation

**1-Day Workshop  
on  
“SPACE TECHNOLOGY IN EARTH SCIENCES:  
PROGRESS AND PROSPECTS”**

**Date: 28<sup>th</sup> September, 2024**  
(Time: 09:30 to 15:30 hrs)

*Jointly Organized by*


**Aeronautical Society of India, Kolkata Chapter  
&  
Regional Remote Sensing Centre – East, Kolkata**

*You are cordially invited to participate in the workshop and  
join us for high tea and lunch*

Venue:  
**Regional Remote Sensing Centre-East,  
Plot No. BG-2, Action Area-1B  
New Town, Kolkata-700163**

**Contact us:**

**Shri Suparn Pathak**  
Deputy General Manager  
RRSC- East, Kolkata  
Email: gmrce\_office@nrsc.gov.in



**Gp Capt. Tapas Kumar Ray**  
Chairman  
AeSI, Kolkata Chapter  
Email: aesi\_kol@yahoo.com

## Table 1: Programme Schedule

**One-Day Workshop  
on  
“SPACE TECHNOLOGY IN EARTH SCIENCES: PROGRESS AND PROSPECTS”**

Venue: Seminar Hall (Ground Floor),  
Regional Remote Sensing Centre – East, Kolkata  
Date: 28.09.2024, Time: 09:30 – 15:30 hrs

Time in hrs	Description	Speaker
09:30 – 10:15	Registration	
10:15 – 10:45	Inauguration	
High Tea (10:45 – 11:00 hrs)		
11:00 – 11:30	Invited Talk 1 Earth’s vital resources in the space age	Dr. Sandip Chakraborti Director, Indian Centre for Space Physics
11:30 – 12:00	Invited Talk 2 Space technology for Agriculture and Food Security	Shri Suparn Pathak Deputy General Manager, RRSC-E
Theme specific lectures		
12:00 – 12:20	Space technology for Mineral exploration and energy security	Dr. Arindam Guha Head, Applications, RRSC-E
12:20 – 12:40	Space technology for Forest Studies	Dr. Tanumi Kumar, Scientist/ Engineer SG, RRSC-E
12:40 – 13:00	Space technology for Ocean Studies	Dr. Rajdeep Roy Scientist/ Engineer SF, RRSC-E
13:00 – 13:15	Vote of thanks National Anthem Group Photograph	
Lunch break (13:15 – 14:15 hrs)		
14:15 – 15:30	Visit to the Exhibition Hall / Video shows	
15:30	Tea	

## Annexure-I



### THE AERONAUTICAL SOCIETY OF INDIA KOLKATA BRANCH

(Reg. No. : S-356 dated 17th November 1948-49)

(Registered under Societies Registration Act XXI of 1860)

CG - 45, SECTOR - II, SALT LAKE, KOLKATA - 700 091

Office : 033-2358 9988 | E-mail : [office@aesikolkata.in](mailto:office@aesikolkata.in) | Web. : [www.aesikolkata.in](http://www.aesikolkata.in)

**CHAIRMAN :**

Gp. Capt. Tapas Kumar Ray  
☎ : +91-9903005233

**HONY. SECRETARY :**

Ranjan Bhattacharya  
☎ : +91- 9433013787

**HONY. TREASURER :**

Gour Pada Mandal  
☎ : +91-9831085381

To  
Sri Suparn Pathak  
GM  
RRSC-EAST  
NEW TOWN  
KOLKATA

**Sub: Oneday Seminar & Workshop**

Sir,

Greetings from AeSI(Kol)

AeSI (Kol) jointly with RRSC East Newtown would like to organise an one day Seminar and workshop titled as: SPACE TECHNOLOGY IN EARTH SCIENCE: PROGRESS AND PROSPECT

Venue: RRSC-EAST, NEWTOWN ,Seminar Hall

Date: 28th September, 2024(Saturday)

The event will promote space technology and would benefit the larger audience with RRSC-EAST. It has been planned for one invited lecture by Director, Indian Centre for Space Physics and one by Chief General Manager RCs, NRSC and three talks by RRSC-East on relevant topics.

Please forward confirmation and acknowledgement.

With best wishes

Gp Capt Tapas Kumar Ray

Chairman  
AeSI(Kol)

9903005233  
email: [tapaskumarray44@gmail.com](mailto:tapaskumarray44@gmail.com)

03rd September 2024

## Annexure-II

RECEIVED

राष्ट्रीय सुदूर संवेदन केंद्र National Remote Sensing Centre  
क्षेत्रीय सुदूर संवेदन केंद्र - पूर्व Regional Remote Sensing Centre – East

September 06, 2024

### Note

This has reference to the online meeting held on August 26, 2024 with members of Aeronautical Society of India (AeSI), Kolkata Chapter and E-mail communication on 03<sup>rd</sup> September 2024 received (Annexure- I) from AeSI, requesting Region Remote Sensing Centre – East, Kolkata to jointly organize a workshop at RRSC-East, Kolkata. Likely participants are society members, academia (IIT-Kharagpur, Institute of Engineering and Management, University of Engineering & Management, research scholars and students) and professionals (approximately 120 in number including RRSC-East staff).

Based on the aforementioned online discussion, September 28, 2024 (Saturday) has been fixed as the date for the workshop. It has been planned to organize this workshop in the Seminar Hall at RRSC-East. The estimated budget for arranging the program is around ₹63,000 (Rupees sixty-three thousand only) and the cost break-up is given in Annexure 1. AeSI, Kolkata Chapter has agreed upon spending an amount of ₹43,000 towards the arrangement of lunch packets for all the participants and providing mementos for invited speakers and dignitaries. The remaining amount of ~ ₹20,000 may be incurred from two different Line-Item codes. ₹8,800 (the unspent amount under NRSC Golden Jubilee Celebration at RRSC-East) may be incurred from LIC 060670104202 Object code – 500 (50 years of NRSC) and ₹11,200 may be spent from LIC 060690401801 Object code – 500 (Exhibition/Workshops/Seminars).

The topic of the workshop has been kept as "Space Technology in Earth Sciences: Progress and Prospects". The tentative schedule of the workshop is given in Annexure 2.

Submitted for your kind suggestions and approval for the workshop.

प्रधान, अनुप्रयोग / Head, Applications : अरिंदम 06/09/2024

उप महाप्रबंधक/Deputy General Manager 06/09/2024

मुख्य महाप्रबंधक/Chief General Manager

रस. के. शर्मा 09/09/2024

निदेशक / Director

सीजीएम (भारत) कार्यालय, नई दिल्ली  
CGM (RCs) Office, New Delhi  
र. / No. 304  
प्राप्त दि. / RD. Dt. 09/09/24  
प्रस्थान दि. / DP. Dt. 09/09/24



## Annexure-III

### Glimpses of the workshop



एक दिवसीय कार्यशाला  
"पृथ्वी विज्ञान में अंतरिक्ष प्रौद्योगिकी: प्रगति और संभावनाएँ"  
1-Day Workshop on  
"Space Technology in Earth Sciences: Progress And Prospects"  
संयुक्त रूप से आयोजित / Jointly Organized by  
एयरोनॉटिकल सोसायटी ऑफ इंडिया, कोलकाता अध्याय / Aeronautical Society of India, Kolkata Chapter  
और / and  
क्षेत्रीय सुदूर संवेदन केंद्र-पूर्व, कोलकाता / Regional Remote Sensing Centre-East, Kolkata  
28 सितम्बर / September 2024



#### Programme banner



Registration of the participants



Delegates and students in the Seminar Hall



Dignitaries lighting the lamp on the dais



Welcome address by Gp. Capt. Tapas Kumar Ray, Chairman, AeSI, Kolkata Chapter





Felicitation of Gp. Capt. Tapas Kumar Ray by Shri Suparn Pathak, DGM, RRSC-East



Dr. D. K. Maiti, Vice-Chairman, AeSI, Kolkata Chapter providing an overview on the activities of AeSI and theme of the workshop



Felicitation of Dr. D. K. Maiti by Dr. Tanumi Kumar, Senior Scientist, RRSC-East



Shri Suparn Pathak, DGM, RRSC-East providing an overview on the activities of ISRO



Felicitation of Shri Ranjan Bhattacharya, member, AeSI, Kolkata Chapter by Dr. Niraj Priyadarshi, Senior Scientist, RRSC-East



Delegates, students and RRSC-East staff in the Seminar Hall





Keynote – I presentation by Dr. Sandip Chakraborti



Felicitation of Dr. Sandip Chakraborti by Dr. Arindam Guha, Head, Applications, RRSC-East



Keynote – II presentation by Shri Suparn Pathak, DGM, RRSC-East



Felicitation of Shri Suparn Pathak by Chairman, AeSI, Kolkata Chapter



Presentation by Dr. Arindam Guha, Head, Applications, RRSC-East



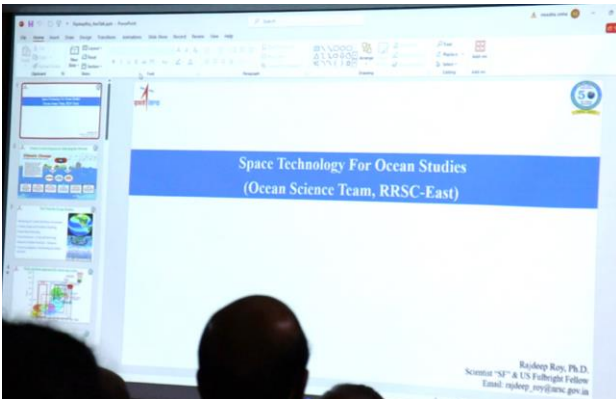
Felicitation of Dr. Arindam Guha by Shri Ranjan Bhattacharya



Presentation by Dr. Tanumi Kumar



Felicitation of Dr. Tanumi Kumar  
by Ms. Rituparna Biswas, Faculty, IEM



Presentation by Dr. Rajdeep Roy, Senior  
Scientist, RRSC-East



Felicitation of Dr. Rajdeep Roy  
by Shri Subhrajit Banik, member, AeSI,  
Kolkata Chapter



Felicitation of Dr. Chiranjivi Jayaram, Senior  
Scientist, RRSC-East and programme co-  
ordinator by Shri Suparn Pathak



AeSI, Kolkata Chapter delegates in the  
Exhibition Hall





Students in the Exhibition Hall



Group photograph of the RRSC-East staff, AeSI, Kolkata Chapter delegates and IEM faculties



Group photograph of Shri Suparn Pathak, DGM, RRSC-East, Dr. Arindam Guha, Head, Applications, RRSC-East, Gp. Capt. Tapas Kumar Ray, Chairman, AeSI, Kolkata Chapter, Shri Ranjan Bhattacharya, member, AeSI with students and faculties of IEM