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Name (block letters) : -----  
Institution : -----  
City : -----  
Pin : -----  
E-Mail : -----  
Fax : -----  
Presenting Paper : Yes/No  
Title of Paper : -----  
Theme (A-D) : -----  
Registration Details  
Accommodation Required : Yes/No  
Accommodation Category : Single/Sharing  
Financial Support Required: Yes/No  
(Limited to retired personnel and Students only)  
Additional Information, if any : -----  
Date : ----- Place : -----

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**National Seminar on  
Emerging Trends in Space and  
Aviation Meteorology**

**18-19 FEB 2008**

**New Delhi**



*Organised Jointly by*

**Indian Air Force,  
Directorate of Meteorology  
&  
Indian Meteorological Society**



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INDIAN METEOROLOGICAL SOCIETY**

### Background

1. The Directorate of Meteorology, Air Headquarters (VB), New Delhi jointly with India Meteorological Society (IMS) is organising a National Seminar on Emerging Trends in Space and Aviation Meteorology to understand and implement latest available frontier technologies for forecasting space and aviation weather for civil and military aviation and identify areas where further research is required.

2. Aviation weather forecasting has developed rapidly in the last few decades spurred by scientific and technological progress. Aviation Meteorology encompasses all aspects of Meteorology that are relevant for the operation of flights by aircrafts both for civilian and military purposes under various field conditions. Its understanding by Meteorologists and flight personnel alike is essential thereby necessitating synergy in their collective efforts to enhance the confidence of the flight personnel in the Meteorological inputs passed onto them either before taking off or during their flight. With the rapid advancements in the field of space and aviation meteorology, aviation forecasting services for operational purposes have undergone a sea change. Latest techniques like satellite based remotely sensed data, ocean observations using automatic weather stations drifting/moored buoys, integration of mathematical, empirical equations and the in-situ observations by means of Numerical methods/models, have revolutionised the forecasting techniques and have increased the confidence levels of the forecasters manifold. India Met department and Indian Air Force have always kept pace with these latest developments and continuously integrated these techniques in their in-house meteorological forecasting to meet operational requirements of civil and military aviation.

3. Emerging technologies have provided capabilities to exploit sensor based accurate automated and complete observational systems and space borne platforms and sensors for weathersurveillance. Convergence of computers and communication has brought paradigm shift from distributed computing to centralized data processing and dissemination. Numerical weather prediction (NWP) which is computer and communication intensive is emerging as a primary system of weather forecasting. There is a need to understand emerging technological trends as well as utilize academic research to meet the ever increasing operational space and aviation weather forecasting demands.

4. India is an aerospace power having trans-oceanic reach. To build the planned aerospace capability, it has become extremely important that civilian expertise and emerging technologies be leveraged. Space weather will become a real requirement to leverage space technology for multifaceted human economic and social activities, launch / positioning of space based communication systems, remote sensing satellites, space based weapons. Space weather can adversely affect the efficacy of these space borne platforms. Thus, in order to meet the demand of the emerging aerospace element of the country, there is a need to synergise academic research with emerging technologies to monitor and predict space weather and its impact on space borne platforms / sensors.

### Theme of the Seminar

5. The theme of the seminar is '*Emerging Trends as spurred by scientific and technological progress in Aviation Meteorology and their Implementation for emerging space and Flight Safety requirements of Defence forces*'. In general, the seminar will focus on the following themes:

- (a) Advances in Observational technologies
- (b) Modeling of the Atmosphere
- (c) Aviation Weather hazards
- (d) Weather Forecasting for Aviation
- (e) Space Meteorology
- (f) Forecasting of Space Weather
- (g) User Requirements

### Title of the Seminar

6. The title of the seminar is SAM -2008.

### Seminar Participation

7. The participation will be restricted to major institutions engaged in operational or research activities in the field. Leading scientist in space and atmospheric sciences from reputed national institutes like the IITs, IISc, ISRO, MoES, DRDO, I Met D, IITM, NCMRWF, CUSAT, IN and IAF are expected to participate in the seminar.

8. Participants willing to present oral and poster presentations are requested to submit the extended abstracts of the scientific papers not later than 10 Jan 08. Participants will be short listed by the scientific Committee on the basis of suitability of the paper for oral or poster presentations. The intimation regarding selection of the participants will be intimated by 15 Jan 08. Registration is also required to be completed by 25 Jan 08.

### Important Dates

9. The important dates for the submission of the abstract and the papers are as follows:

- (a) Submission of abstract : 10 Jan 08
- (b) Submission of paper : 25 Jan 08
- (c) Submission of Registration form : 25 Jan 08

### Venue

10. It is proposed to hold a **Seminar on Emerging Trends in Space and Aviation Meteorology** during 18-19 Feb 08 at Air Force Auditorium, Subroto Park, New Delhi.

### Accommodation

11. Accommodation may be arranged on request by Local Organising Committee in guest houses with tariff ranging from Rs. 200 to Rs. 500.

### Transport

12. The local organising committee will provide the transport for participants to the seminar venue.

### Registration

13. Registration fee is Rs. 5000 for organisations and Rs. 500 for individuals.