'Application of Space Technology for Monitoring and Managing Risks'

24 - 26 May, 2017

South Asian region is highly prone to multiple disasters due to geo-climatic conditions. As per Center for Research on Epidemiology of Disasters (EM- DAT CRED) more than 1625 major disasters have occurred in SAARC region since 1990 causing life loss of more than 12 million, affecting more than 2.8 billion.

The uses of satellites in disaster management are becoming more integral to reducing reactiontime and providing accurate information to rescue and disaster control operations. Satellites are used in disasters for communications, remote sensing and mapping. Meteorological and storm warning satellite technology can help in predicting disasters and taking precautionary actions. They can analyze climate change and map areas for relief operations with the data collected from the satellites.

To enhance the capabilities of the SAARC nations on application of space technology for disaster management, the training program on 'Application of Space Technology for Monitoring and Managing Risks' is organized by SAARC DMC (IU).

Aim

- The Aim of the program is to strengthen the knowledge base of officials from SAARC countries regarding recent advancement in space technology and build their capacity of to apply this knowledge in all phases of disaster management.

Objectives

- To acquaint participants with varied applications of space technology in disaster risk reduction.
- To learn and demonstrate the use of space technology applications for enhancing disaster communication
- To familiarize with space technology application in assessment and monitoring of hazards
- To update participants with recent advancement in space technology and its usage
- To create a platform for sharing of the challenges and best practices experienced by the participants in SAARC region.

Schedule

Day 1, May 24, 2017

9:00 – 9:30	**Registration**
9:30 – 10:15	**Inaugural Session**
11:00 – 12:00	**Panel Discussion** [Anchored by Anju Sharma, Director-SDMC]
Panelists	Shri Bipin Mallick, IAS, Additional Secretary, MHA, GoI Shri Prashant Agrawal, IAS, Joint Secretary, MEA, GoI Ms Julekha Sultana, Jt. Secretary Ministry of DM, Sri Lanka Ms Rita Dhital, Director, SAARC Secretariat, Nepal Director, ISRO, Ahmadabad Shri V. Bhanumurthy, Associate Director, NRSC Ms Janki Andharia, Professor, TISS
12:00 – 13:00	**Disaster Risk Reduction – Concept and Mandate** Ms Janki Andharia, Professor, TISS
13:00 – 14:00	*Lunch Break*
14:00 – 15:00	**Use of Space Technology in Fail-Safe Emergency Communication and Establishing Last Mile Connectivity in the Region** Shri Nilesh M. Desai, Deputy Director-SNAA/SAC, ISRO
15:00 – 15:30	**Live demo of Mobile Satellite Services (MSS) and VSAT Terminals** SAC, ISRO
15:30 – 15:50	*High Tea* **Continued Live demo of MSS and VSAT Terminals**
15:50 – 17:00	**Use of Space Technology in Monitoring Hydro-Meteorological Hazards** Dr. (Ms.) K. Sathi Devi, Scientist-F, Indian Meteorological Department Dr. A. K. Mitra, Scientist-D, Indian Meteorological Department
17:00 – 17:15	Discussion
18:00 - 20:30	*Visit to Science City, Ahmedabad*
20:30 – 22:00	*Dinner at GIDM*

Day 2, May 25, 2017

10:00 – 11:00	**Recent Advancement in Space Technology and Satellites for Disaster Management Applications in SAARC Region** Shri D. K. Singh, Group Director, Space Application Centre, ISRO
11:00 – 11:20	*High Tea*
11:20 – 12:30	**Establishment of Decision Support System and Flood Disaster Response using Space Technology – Case Studies of J&K, Kedarnath/Uttarakhand** Shri Chandraprakash, Senior Scientist-SNAA, SAC, Space Application Centre, ISRO
12:3 0 – 13:30	*Lunch Break*
13:30 – 14:30	**National Agricultural Drought Assessment and Monitoring System** Dr. C S Murthy, Head - Crop Monitoring & Assessment National Remote Sensing Centre, ISRO
14:30 – 14:50	High Tea
14:50 – 16:00	**Implications of Space Technology in Hazard, Risk, Vulnerability and Capacity Assessment** Mr Shushil Gupta, RMSI
16:30 - 19:30	*Visit to Sabarmati Ashram and Riverfront*
19:30 – 22:00	*Dinner at Rajvadu, Ahmedabad*

Day 3, May 26, 2017

10:00 – 12:00	**Visit to Bhaskaracharya Institute for Space Applications and Geo-Informatics (BISAG)** Shri T P Singh Director, BISAG
12:00 – 13:00	**Use of Space Technology in Early warning of Disasters** Dr L S Rathore Consultant- World Bank
13:00 – 14:00	*Lunch*
14:00 – 15:00	**Use of Space technology in Post Disaster Damage and Needs Assessment – Case Study of the Nepal Earthquake** Mr Prabhat Kumar Nepal National Reconstruction Authority, Nepal
15:00 – 15:20	*High Tea*
15:20 – 16:00	**Feedback and Valedictory**