

ExploreTheSpace



Opportunities in Space Sciences -
Workshops, Conference & Study Tours

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Anand Institute of Higher Technology



- Indo-US Space Cooperation : Scaling Newheights
- “ Opportunities Unlimited– Space and Beyond!”
Education... Research... Business... and more...

17th August 2016 Anand Institute of Higher Technology, Chennai

The Seminar at Anand Institute of Higher Technology, (OMR Road, Kelambakkam) Chennai was inaugurated by the Principal, Dr. Nalini Joseph . Prof Ramamurthy, former Scientist ISRO, was the guest speaker. D.V.Venkatagiri, Founder & CEO, Explore The Space outlined the objectives of the venture and highlighted on Indo-US Space Cooperation. Mr. Sivakumar, HOD, MBA Department, introduced the speakers and the topic. More than 150 Students participated in the Seminar.

Key Points

Many of the present day discoveries are inventions based on knowledge of our ancestors like Aryabha_a (Astronomer & Physicist), Bhaskaracharya(Law of Gravity),Bharadwaj (rockets &Airplanes), Viswamitra (Missiles).etc., This clearly indicates that evolution of space Science studies and research started in INDIA with strong roots. India was the pioneer in using rocket technology during the war between Tippu Sultan and British Army.



The modern space Science and Technology activities were started with the launch of an American Rocket "Nike Apache" from THUMBA, near Trivandrum, which is very close to Equator, in November 1963.



India and USA are fast developing their cooperation in Space Exploration and this is sure to be an area of immense value to both the Countries. A bilateral mechanism for sharing information for tracking movements of satellites , avoiding collisions, and identifying potential threats to space and ground assets has been set up by India and USA as part of their growing space partnership.

With the formation of Indian Space Research Organisation (ISRO) under Dept. Of Space, Govt. Of India, our country made rapid progress in developing rocket/ satellite technologies with systematic planning of R&D, and Facilities for design, development, testing , assembly and launch. Initially ISRO developed smaller rockets called sounding rockets for the exploration of upper atmosphere upto 300 km altitude to study the various layers such as troposphere, stratosphere, mesosphere and thermosphere to understand the effect of x rays, ultraviolet rays, infrared rays, electron density on earth with respect to on set of monsoon, weather modeling, cyclone formation etc.,



" Space Technology provides Solutions for the Future"

The launch vehicles were developed for pu_ing Satellites revolving around earth for low earth observation , polar missions, and geo synchronous orbits. These technologies helped to reap the cost effective benefits of remote sensing, earth observation, telecommunication, tele medicine, teleducation, weather monitoring, resource surveys etc., etc.,



The PSLV and GSLV launch vehicles are being used for inter planetary missions like Chandrayan, and Mangalyaan. We could successfully complete the missions with lowest cost and high level of performance. The space technology is a challenging and growing field .Future missions for manned flights, asteroid missions, Sky Labs etc., needs the development of advanced materials science, propulsion concepts, communication challenges etc.,

Development of advanced technology faces lot of challenges, needs dedicated brains for successful realization. Challenges are many, opportunities are plenty. There are many commercial uses of various spin offs to develop new industries and employment opportunities. To quote the some of the commercial uses of Spinoffs of ISRO are -Advance high temp resin / adhesives-Artificial polyurethane foot-space lubricants-Bullet proof carbon cloth-Denture material-Silica cloth and tiles-Fire extinguishing powder-PARAS software etc., As on date, the Space technology has given more than 2000 products and services in the areas of energy, transportation,health care, education, agriculture, IT, and food technology. The avenues of growth, development and commercialization is very promising as the space technology is fast growing and the demand for meeting the challenges of population growth, water scarcity, energy management, demand for resources etc.,

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