

**Quarterly Report of
The Activities of IEEE Jodhpur Chapter GRSS
*From March 2012-June 2012***

Introduction:

Vision of the Geosciences and Remote Sensing Society (GRSS)

To be the leading society in science, engineering, applications, and education for the remote sensing and geospatial information community.

Fields of Interest

The fields of interest of the Society are the theory, concepts, and techniques of science and engineering as they apply to the remote sensing of the earth, oceans, atmosphere, and space, as well as the processing, interpretation and dissemination of this information.

IEEE Jodhpur chapter

The IEEE Jodhpur chapter has been formed on the 3rd January 2012. After the formation of the chapter we have decided to conduct the monthly and the fortnightly lecture series. On the 28th February we had the meeting of IEEE member in the ICRS premises. The meeting was attended by the Prof. OPN Calla- Director ICRS, Mr. Sanjay Gaur- Lecturer JIET, Ms. Pooja Asopa – Sc-B ICRS, Ms. Shubhra Mathur, JRF ICRS and Mr. Amit Kumar-JRF ICRS. In that meeting we have decided how we can increase the number of member in the Jodhpur chapter society. The Remote Sensing should be one of the subject in M.Tech so that the students should understand the importance of Microwave Remote Sensing. To promote this activity the monthly and fortnightly lectures have been started.

In this lecture series the first lecture was taken up by Prof. B.N Basu on 1st of March 2012 which was jointly organized by Archya Jagdish Chandra Bose College, IEEE-GRSS Jodhpur Chapter, CERRI Pilani and International Center for Radio Science (ICRS). The lecture covers the following topics Microwave Tubes Development Scenario in India, Travelling-Wave Tube --No More a Slow-Wave Tube and Gyro-Device --No More a Fast-Wave Device and Circuit Theory Equivalents of Electromagnetic Theory. This lecture was conducted in Defense lab Jodhpur. Total participation in this lecture was 50 and even many students have come from different Engineering college to participate in this lecture.



Prof. B.N Basu with other participants

On 16th March 2012, around 50 students had visited the ICRS lab and understood the importance of remote sensing. They had learnt many things about Antenna, Radiometer and even understood the project that are currently running in ICRS like Determination of Soil moisture, Ocean Salinity, Planetary Sciences and many more. This activity was jointly organized by IEEE-GRSS and ICRS.



The students visit to the ICRS premises on 16th March 2012.

A lecture and Quiz was organized by Department of Science and technology (Govt. of Rajasthan), IEEE-GRSS, USA and International Center for Radio Science (ICRS) on 28th March 2012. The Lecture was taken by Prof. OPN Calla on “INDIA’S FIRST MOON MISSION-CHANDRAYAAN-1”. The documentary was shown to the students which depicted how the satellite works in the space and how the data is retrieved for the analysis.



Lecture taken by prof. OPN Calla and the students are participating in the quiz

The lecture series was continued by Prof. OPN Calla. He delivered on 16th April 2012 titled “Application of Radio Waves (Discovered by Sir J.C Bose)”. In his lecture he told the journey of the Microwave which was discovered by Sir J.C Bose, his inventions and the applications of the

Microwaves like Land, Ocean, Snow and planetary Sciences. The other applications of the Microwaves were also explained like biomedical applications, Industrial applications.

On 28th April 2012, lecture was delivered by Prof O.P Vyas- Dean JIET Engg College on titled “Communication: The changing dimensions” at ICRS premises. In his lecture he had described Changes in Tele – Communication during this generation, Convergence of Communication and Information Technology and what will be Future of communication.



Lecture taken by Prof. OP Vyas – Dean JIET on 28th April at ICRS

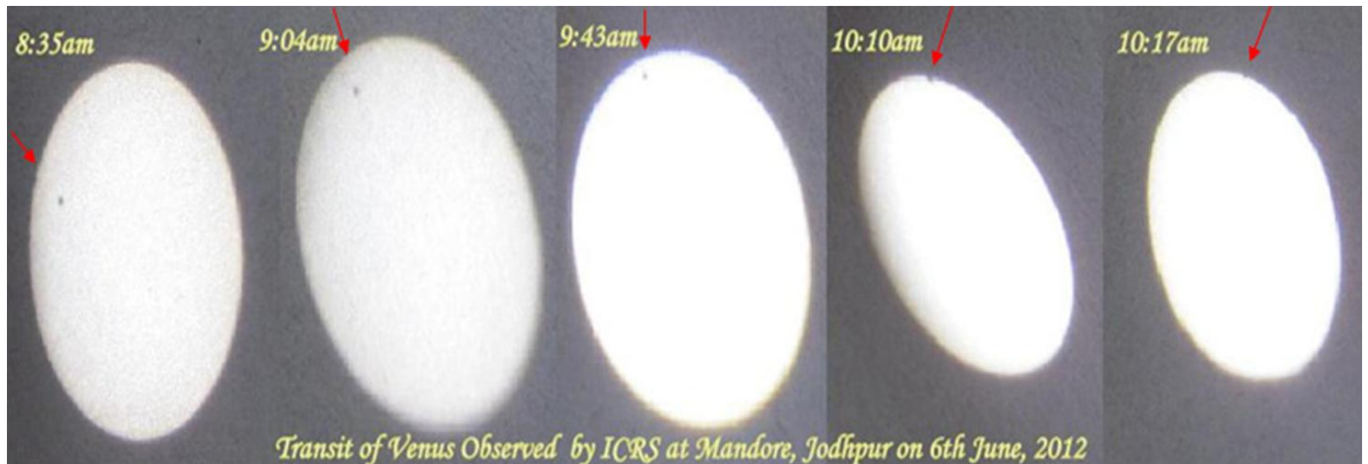
A documentary on Sir J.C Bose was shown on 12th May 2012 as the part of monthly lecture. In that documentary how Sir JC Bose had discovered the Microwaves is shown as well as the different application like in the plant biophysics were also explained.

The next fortnightly Lecture was delivered by Prof Sanjay Gaur on 26th May 2012, titled “Image processing” at ICRS. In his presentation he covered Basics Image Processing, Some Matlab Commands and the Research Areas of Image processing.



Lecture taken Mr. Sanjay Gaur – HOD (ECE) JIETSETG on 26th May at ICRS

On 9th June 2012 Lecture was again delivered by Prof. OPN Calla titled “Transit of Venus- The Rare astronomical Reunion” and Video of launching of RISAT-1 and its first day images of RISAT was shown in the IEEE Lecture.



On 30th June 2012 the lecture was delivered by Prof. OPN Calla on “Planetary Expolaration- Chandrayaan-1 And Future Mission” to the IEEE Members and participants.