

*Glimpses of previous years events*



Observing sunspots

Science models



Paintings



Science Quiz



Exhibition



**How to reach Radio Astronomy Centre:**

*Take a bus from Ooty bus station going towards M.Palada / Nanjanad / Kallakorai / Ithalar / Emerald and get down at Muthorai village. A pleasant uphill walk of 1km from Muthorai will lead to RAC. In an alternate route, take a bus to Melkavatty village and get down at the main gate of RAC.*

***For further details contact***

**Convenor, NSD-2016  
Radio Astronomy Centre  
Post Box No. 8, Muthorai  
Udhagamandalam – 643 001**

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**Phone: 0423-2244888, 2244880**

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**For regular updates follow below links**

**website : <http://rac.ncra.tifr.res.in>**

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NCRA • TIFR

**Radio Astronomy Centre  
NCRA—TIFR**

**National Science Day**

**28 February 2016**

*National Centre for Radio Astrophysics*

*Tata Institute of Fundamental Research*

## National Centre for Radio Astrophysics

The National Centre for Radio Astrophysics (NCRA) is part of Tata Institute of Fundamental Research (TIFR), which is funded by the Government of India through Department of Atomic Energy. The NCRA operates two major observational facilities, viz., Giant Metrewave Radio Telescope (GMRT) and Ooty Radio Telescope (ORT).

The GMRT is located ~90 km north of Pune. It consists of 30 antennas of each 45-m diameter parabolic dishes. The GMRT is a modern, highly versatile radio telescope, equipped with the state-of-art electronics.

The ORT is situated at the Radio Astronomy Centre (RAC), near Muthorai village, in the Nilgiri Hills. It is a cylindrical paraboloid of reflecting surface, 530m long and 30m wide, placed on a hill slope of ~11° to make the rotation axis of the telescope parallel to the rotation axis of the Earth. Over the 40 years, the ORT has produced many important astronomical results on radio galaxies, quasars, supernovae, pulsars, interstellar and interplanetary media, etc.

Above facilities provide stimulating environment for the front-line research in radio astronomy and astrophysics and they are being used by national as well as international researchers.

We also organize astronomy and astrophysics related workshops for college students and provide opportunities for students to carry on project works as required by university curriculum.

## National Science Day (NSD) 2016

The National Science Day is celebrated every year on 28th February, all over the country, to **commemorate the discovery of *Raman Effect* by Sir C.V. Raman in 1928, for which he was awarded the Nobel Prize in Physics.**

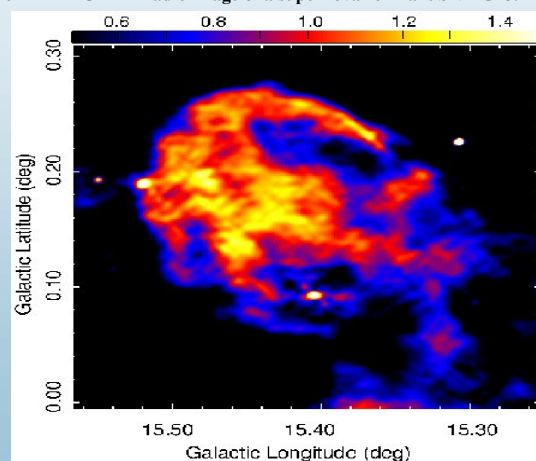
The programme at the Radio Astronomy Centre includes:

- Live observation of celestial objects
- Demonstrations on astronomy and astrophysics
- The Sun and Sunspots
- Exhibits from various scientific and research organizations.
- Display of science models from various schools and colleges

**Venue : Radio Astronomy Centre,  
Muthorai, Ooty**

**Date : 28th February 2016**

624 MHz GMRT radio image of a supernova remnant SNR G15.4+0.1



## Associated Events

**Following Associated Events in connection with the National Science Day will be conducted on 18th February 2016, at RAC, Ooty.**

1. **Science Essay Writing** (Tamil & English)
2. **Quiz**
3. **Painting**
4. **Science Model**

All the events will be conducted for the following four levels

- Level 1 : Classes 5 to 7
- Level 2 : Classes 8 to 10
- Level 3 : Classes 11 & 12
- Level 4 : B.Sc. /M.Sc. /B.E /B.Tech. (Science models only)

### \* NOTE

For Science model and Quiz events, two students can participate, whereas, for Essay writing and Painting, only one student is allowed to participate, from each level. Participating students should produce I.D. proof and bonafide certificate from their respective schools.

Solar wind velocity distribution observed by ORT over ~30 years

