

Ripple of Activities

In the



**DEPARTMENT OF
PHYSICS**

2012- 2013

Activities in the Department of Physics

June - October 2012

Lectures Arranged

- **Talk on Universe @ Physics Department** - On 31.8.2012 @ GyanDarshan hall, our department organized a lecture “**Universe, Us and Indian Odyssey**”. Ms.D.Chandrika, Manager and Student Ambassador of University of Goettigen, Germany gave a talk “Universe, us and Indian Space Odyssey”, arranged by the Department of Physics. More than 150 students attended this talk and were spell bound to listen about our massive Universe, black holes and white dwarfs. As stars cool down to form white dwarfs, their density increases and a spoonful of white dwarf will weigh nearly a ton. The speaker helped the students to learn about the free open source planetarium software Stellarium. With this easy to use tool, they were thrilled to have a realistic view of sky and locate various stars and constellations of the sky above on the screen itself. Students interacted with the resource person to know about higher learning and research institutes on astronomy, astrophysics and cosmology.



- **Meet Ur Alumni**, an interactive programme between successful alumnus and our students was held on 11th Sep, 2012. Our Alumnus Prof. Ravishankar, a successful Physics Teacher interacted with our students on various topics.

Madras Week Celebrations

Our department students enthusiastically celebrated Madras Week. They had displayed posters on history of various institutions in Chennai like IITM, MIT, MRL, MSSRF, MRF, Aavin, as well facts on name reason of various places in Chennai – Perambur, Arumbakkam and many.



Indo- German Urban Mela

On the occasion of completing 60 years of Indo-German diplomatic relations, a collaborative celebration titled “**Germany and India 2011-2012: Infinite Opportunities**” is being held in India. As a part of this, a series of public talks were organised by the University of Gottingen, Germany which brought different experts from Gottingen and India on a single platform to provoke thought that foster ideas on diverse subjects. Our students attended various lectures arranged during this mela. Many of our students also visited the science pavilions in the Indo German Urban Mela.



Participation and Prizes Won by our Students in various Inter-Collegiate Physics Events

- B.Sc. students from our department participated in inter-collegiate Physics meet Crysto'12 conducted by SDNB VaishnavCollege, Chennai on 6th August, 2012. Our students won in many events and came out as ***over-all champions*** and received a trophy.
- Students from B.Sc. PHYSICS participated in various events in Ripples'12, an inter-collegiate Physics meet held at EthirajCollege on 27&28, Aug 2012.
- SreebasDutta **won first prize** in presentation on the topic "Physics in Indian epics" at Ethiraj College.
- Our students took part in all the events at Stella Mary's College, Chennai on 7-09-12.
- They participated various events in inter-collegiate meet Dimensions 2012 held at Anna Aadarsh College, Chennai. V.Saranya and Thangam**won II prize** in face painting.

Seminar attended by students

- II M.Sc. Physics students attended International Seminar on NMR Spectroscopy and Electrochemical Research conducted by School of Humanities and Sciences, Dr.MGR University, Chennai.

- Many of our enthusiastic B.Sc and M.Sc. students visited SERC , CSIR, Taramani Campus on 24th Sep, 2012 during CSIR open day and interacted with the scientists.
- A few motivated students from our Department visited CLRI, Adyar on 25th, Sep, 2012 on open day and learnt about many of the facilities available there and ongoing research projects.

Project on Space

- Our II M.Sc. student Vigneshwaran has been selected at Indian Institute of Space Technology, Trivandrum to attend their winter school on astrophysics and astronomy research to be held during December, 2012.

Papers publications by our students

1. Suriya, M.Sc. student during 2010-2012 has co-authored and published a paper Vibrational Spectroscopy Investigation on Aspirin using Semi-empirical Calculations, **International Journal of Chemtech Research**, ISSN : 0974-4290, Vol. 4, No.3, pp 983-990, July-Sep 2012.
2. Sathyamoorthy, M.Sc. during 2010-2012 has published his project work as a research paper Growth, Structural and Spectral studies on Pure and doped Ammonium Dihydrogen Phosphate (ADP) Single crystals, **Archives of Applied Science Research**, 4(3): 1453-1461, 2012.

Students enthusiastically observe Venus transit

A rare astronomical event- transit of planet Venus occurred on June 6, 2012. During the transit, Venus was seen from Earth as a small black disk moving across the face of the Sun. The planet actually passed directly between the Sun and Earth, becoming visible in the foreground of the bright solar disk. Tamil Nadu Science and Technology Centre (TNSTC) had made arrangements about this celestial activity. With their guidance, many of our students watched this rare event at Birla planetarium.