



# Shiksha Sopan

*An Initiative of IIT Community for social upliftment*

Reg Office: 391, Nankari, IIT, Kanpur 208016

**Newsletter August 2009**

All cells of Shiksha Sopan were actively involved the July 09 month. Science cell conducted two workshops and activities on solar eclipse. New batch of Gahan Adhyayan kendra started in this month. Swavalamban kendra was shifted to a new premise rented for this purpose. A number of IITK students were involved in writing the study material for PPY children. The evening Learning Centers were run efficiently at SAC and Barasirohi. Here is a description about this month's activities.

## Science Cell

### Science show at Opportunity School

Two of our Science cell volunteers Ranjit and Deepak Mishra, both passed class 12 this year, conducted a Science show at Opportunity school in the IITK Campus on 18<sup>th</sup> July. In the 90 minutes allotted for this, they showed about 10 science experiments to class 6-8 children. The experiments were mainly on Balancing objects on a pivot and air-water pressure. The related scientific principles were lucidly explained. They conducted the show in a very entertaining and interacting mode involving the audience to its best.



### Lab Experiments for GAK Children

Science cell organized a lab session for students of class 10 and 12 studying at Gahan adhyayan Kendra on 19<sup>th</sup> July. Our volunteer Ranjit conducted it and trained them on use of Vernier Calliperse. This activity will be done at least once a month and GAK students will be made to perform the experiments that are in their board syllabus.

### Workshop at DPS Binjore

A two-day workshop on Science Experiments was conducted by Shiksha Sopan on 21-22 July at Delhi Public School, Binjore, Punjab on the request of their Principal. Deepak Agnihotri from our Science Cell and Chandrashekhar ji, our EC member and PhD student at IITK went there with a number of experiments to be shown. They were joined by Dr M S Marwaha of Chandigarh

who had attended the NWIPT workshops at IITK. About 30 experiments covering various aspects of science were conducted on the two days. Chandrashekhar ji gave a talk on Nano materials to expose the students on this frontline research area.

The host teachers praised all aspects of the workshop and expressed their gratitude towards Shiksha Sopan for giving them a new insight.



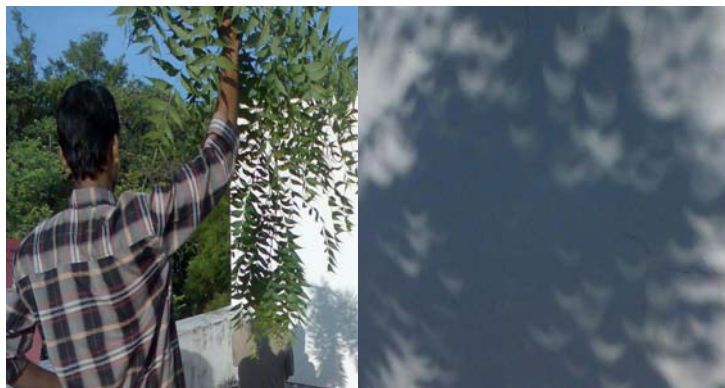
## Solar Eclipse activities

July 22 Solar eclipse was unique in many senses especially for India where a good part of the nation witnessed long totality. Shiksha Sopan used this opportunity to educate its children on various aspects of astronomy related to the Sun, earth and moon and also to inculcate scientific way of thinking.

On 21<sup>st</sup> July we arranged a lecture on solar eclipse at SAC yoga room. Children from all the Evening centers, Sopan Vidyalay, Sopan Swavalamban Kendra, Gahan Adhyan Kendra and also from Opportunity School were invited. The Power Point lecture was delivered by Ms Akshata Singh, an M Tech Student from Electrical Engg, before the 110 children present. A question answer session was then undertaken by Dr H C Verma to further clarify the concepts.

On 22<sup>nd</sup> July the eclipse was scheduled to start at 5.29 AM and Shiksha Sopan volunteers assembled at the rooftop of the residence of Dr H C Verma at 5 AM to witness the this natural phenomena. They made their own Pin hole cameras and projected the images of the sun on a vertical wall to see various phases of the sun. The image of the sun was also captured by a video camera and was projected on a different wall using a multimedia projector where all could see the phases of eclipsed sun clearly.

In a novel effort they used a branch of Neem tree to make natural pin holes from the gaps between the leaves. This allowed to witness a spectacular scene where hundred of images of the eclipsed sun were formed together on a vertical wall.



They also did some scientific experiments on the eclipse effects. Using appropriate sensors, they measured the light intensity (dropped to 157 lux) and the temperature of atmosphere (dropped to 28.3 C) at that rooftop during the eclipse.

## GAK Activities

New batch of Gahan Adhyayan Kendra started in the first week of July. With Shri Ashish Bhateja, ME PhD student, as the in charge, the classes are going on quite systematically. In the beginning of the session a meeting of instructors and coordinators was arranged with all the students and their parents where the motivation of Shiksha Sopan was explained and the role of parents were discussed.



A test was given on 26<sup>th</sup> July to ascertain the progress for all subjects and in all classes. The papers were set by the instructors with external moderation. The results are being analyzed



A popular lecture on Stamps with the title "Philetaly: The hobby of the kings and the king of the hobbies" was given by Mr Manoj Moharana, PHD student in ME to all GAK students after the test on 26<sup>th</sup> July.

## Sopan Swavalamban Kendra(SSK)

The courses at SSK are very effective. In the beautician course, still going on, girls were given mostly practice session on doing a complete work. In one such session, they prepared a make up of Bride, some of the pictures are shown here.



The artificial Jewelry Course is now over. All the girls are now well equipped to make beautiful jewelries in almost professional manner. The closing of this course was done on July 1 where the girls made the assigned items on the spot and a number of Campus Ladies evaluated and appreciated them.



The other courses going on are Sewing and Electrical appliance Repairing.

The whole project is being supervised by Mrs Pooja Mishra of our Campus and Sri Jaiprakash Maurya.

## Sopan children go for better career

Shubhangi a student from Gahan Adhyayan Kendra did quite well in class 12 with biology group and was keen to go for Science stream. We advised her to prepare for the Entrance Exam of Dayalbag institution at Agra who are very reputed for their UG programme. The competition was quite tough as there are only 8 seats for open competition in general category. Shubhangi gave a serious try to this and with Sopan assistance, she competed in the exam.



Parents were hesitant to get her admitted there because of financial constraints. But We have persuaded them for the sake of good career of Shubhangi and have assured that Shiksha Sopan will help them financially. The parents have decided to arrange for the fee of Rs 6000/per year while the other expenses to the tune of Rs 24000/per year has to be arranged by Shiksha Sopan.

Ritosh started his association with Shiksha Sopan about 6 years ago when he was in class 10 and used to come at SAC Evening Center. Later he joined our Science Cell and developed as a good communicator as well as good developer of experiments. He got selected in Indian Naval Force as SSR and is undergoing training at Chilka, Orrisa.



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## Other Informations

**Web site** : For more details please visit [www.shiksha-sopan.org](http://www.shiksha-sopan.org)

**How to donate** : The cheques/draft for donations should be made in the name of "Shiksha Sopan" payable at Kanpur. Doners may kindly give their personal details such as name, postal address, email address, so that the receipt, updates etc. may be sent. One can also make online transfer to Shiksha Sopan account in State Bank of India, IITK branch in the Account 10426002488 in the name "Shiksha Sopan". The swift code of the bank is SBININBB499.

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