

# *MOBILE LABORATORY*

## (Lab on wheels)

Degree chemistry students of SDMSMK displayed and demonstrated their lab equipment to high school students and the young minds to incite their interest in the field of chemistry. In the government municipal corporation high schools the students are sharp but there are no lab facilities according to their syllabus. So the faculty of the department studied their syllabus and guided the III PMC students to coach the High School students. Students divided into 10 groups and explained different types of laboratory experiments by utilizing all the laboratory facilities provided by the management. The Students arranged a **MOBILE VAN** with necessary equipment and chemicals and move to many government schools where there is no proper laboratory facilities and spread the concept of **Science At Their Door Steps**. Under this extension activity we have given practical orientation to Boyapati Siva Rama Krishna, Nidamanuru, Patama, kudhus Municipal high schools, S.K.C.V.Vidya Vihar Government High School , child aid foundation Vijaya Bharathi School, Vijayawada. Over **1000 High School Students** were benefited by this programme. Our students successfully finished their job. They wisely choose municipal schools for this task, with the objective to benefit students from schools with little or poor infrastructure and give them practical exposure to the latest lab equipment and peripherals. The students of many municipal schools of Vijayawada were thrilled to be amidst us in our well-equipped laboratory. Their joy knew no bounds when they had actually seen the equipment about which they had only theoretical knowledge. We saw our students in a different perspective while they were demonstrating experiments at schools. They have become teachers to 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> students and introduced the chemistry laboratory, its contents and equipment. Our students explained in detail about the structures of important compounds, models of s,p,d orbitals structures of sulphur, graphite and diamond etc with the help of visual aids.

The important chemical compounds Ferric chloride, Veniger (acetic acid), citric acid (vitamin C), acetone (nail polish remover), certain salts and metals; acids and bases were also shown. Chemical reactions like sublimation, brown ring test, scarlet red dyes were demonstrated along with different types of chemical reactions. Different apparatus, which they have seen only as pictures in their text books- qualitative and quantitative analysis apparatus were displayed to them.

Third year chemistry students demonstrated the preparation of phenol, washing powder, soap oil to the high schools students of orphanages in the city. The students were very happy to be associated with such a programme, which swelled their confidence. This act provided them the opportunity to observe exited children from close quarters and the

relevance of science at practical level. It was a feast to their eyes, as most of them had not seen the lab equipment till then, on account of their poor infrastructure.

The response was immediate and very encouraging. Nearly 160 girls and 190 boys attended our lab and nearly **1000 students** belonging to various municipal schools were well informed by mobile laboratory. We are sure that the children left the lab with a changed outlook towards science. Our objective of **Science On Wheels** was fulfilled when many students expressed their desire to become scientists.

**2018-2019:**



Students from various High Schools (Z.P. High School, Kanchikacherla & VMC High School, Patamata) visited our chemistry laboratory and students demonstrated various experiments on 30-11-2018.



On the same day the preparation of phenol, washing powder, chalk pieces were shown to the students. Hoping that, this initiative of ours would go a long way in enabling them to be self sustained by manufacturing any of the items demonstrated in our labs.

**2017-18:**

Training to demonstrate experiments In the municipal high school.



**The student Demonstrating various experiments related to their subject**



**Explaining the model of Diamond:**





**2016-17:**

**Ready with a kit of Mobile Laboratory**



**Demonstrating an Experiment in a municipal school**



**2015-16:**

**Mobile laboratory**



# An educative experience indeed

Staff Reporter

**VIJAYAWADA:** The Chemistry Department of Sri Durga Malieswara Siddhartha Mahila Kalasala on Thursday conducted a special programme for the benefit of high school students.

Over 100 students of SKSR Government High School for Girls at Patamata visited the department and had their doubts cleared.

## Scientific models

B.Sc. final year students introduced their laboratory to the high school students and demonstrated some scientific models and experiments for them.

The college, which conducted four such programmes for the benefit of

students of government-run schools in the city last year, continued the programme for the second consecutive year.

Students of schools run by the SKCV Trust and the Child Aid Foundation learnt the making of washing powder in the laboratory last year.

## Objective

Head of the department S. Kalpana said that the objective of the programme was to introduce chemistry lab to high school students who did not have the laboratory facility in their schools.

She said it would also help the college students improve their knowledge over the subject during the process of explaining to high school students about various chemicals and chemical reactions.



**RARE CHEMISTRY:** A student of SDM Mahila Kalasala demonstrates an experiment to students of girls high school in Vijayawada on Thursday.



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## Explaining Models where there is no proper Lab facility in a Municipal School



2014-15

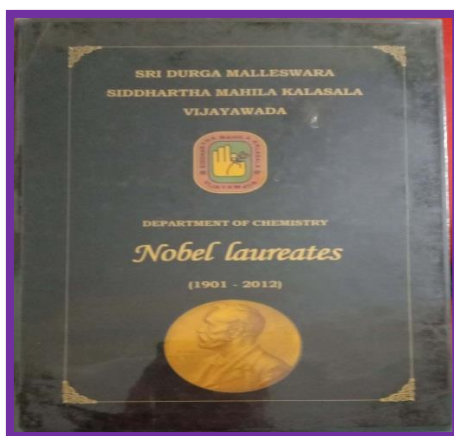


In association with World Vision conducted an extension activity on 25<sup>th</sup> Nov, 2014. II B.Sc students visited DSM School and Kudus Urdu Municipal High School and demonstrated chemistry practical's with Mobile Laboratory.



## **NOBEL LAURATES**

The department of chemistry recognise and maintain the details of Nobel Laurates from the year 2000 to 2024 for their outstanding contribution to the field of chemistry. These exceptional individuals have been honoured for their ground breaking research and innovations, which have significantly advanced scientific understanding and practical applications. Each laurates' work has had profound impact on various areas such as Molecular Chemistry, Nano technology, Environmental Chemistry and Biochemistry shaping the future of Scientific exploration and improving numerous aspects of daily life.



### **Book Link:**

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