

AGGARWAL COLLEGE BALLABGARH
PRESS REPORT
M.SC. (PHYSICS) STUDENTS'
VISIT TO NATIONAL PHYSICAL LABORATORY
NEW DELHI

27th September, 2016

Department of Physics, Aggarwal College Ballabgarh on the occasion of Council for Scientific and Industrial Research (CSIR) foundation day organised a visit of M.Sc. Physics 3rd Sem. Students to NPL, New Delhi under the supervision of *Dr. A.S.Yadav, HOD Physics and Dr. Arindam Ghosh, Assistant Professor*. We reached NPL at 9.00 AM. Then after registration formalities *Mr. Dheeraj* one of the NPL volunteers, took us to various laboratories which were ready for demonstration on the occasion of **CSIR NPL OPEN DAY**.

We first visited the **Atmospheric Science Laboratory**. This laboratory deals with the measurement of various pollutants affecting our environment including Biomass Fuel and Black Carbon. Organic Carbon and Elementary Carbon (**OCEC**) *Analyser* was also shown. Then we visited the **Semiconductor Laboratory and Thin Film laboratory**. New Amorphous and **Micro-Crystalline Solar Cells fabrication** were also shown to us. New material research on **Quantum Dots and their fabrication** are studied here. Then we visited the **Fluid Flow Metrology Laboratory**. The measurement techniques for fluid flow were demonstrated to us. Then we visited the **Clean Room**. All standard measurement of all type of solar cells and their parameters are done here. Then we visited **Carbon Science Laboratory**. The **various allotropes of carbon** and their practical applications in order to make the day to day life more comfortable was explained with the help of posters and demonstrations. The **Electro Spin Nano Machine** was demonstrated and the procedure of depositing the thin film was discussed. The lunch was followed by the **Slogan Competition**. In the last, documentary on the various activities of NPL was shown in the Auditorium. After this student visited Indian National Movement Museum at Red Fort.

The visit was a great experience for M.Sc. Physics students. It was very helpful in gaining practical knowledge about various standards of physical quantities. It helped them to know the latest achievements in the field of Physical Science. This tour really motivated the students to proceed further in the field of Research & Developments. Students were thankful to the Principal Dr. Krishan Kant Gupta and Incharge Dr. Usha Aggarwal for their initiatives in organising such visit.