



## A New Initiative by SAE Collegiate Club of B.S. Abdur Rahman Crescent Engineering College – Factory Visit

SAE Collegiate Club of B S A Crescent Engineering College has taken a new initiative of organizing an industrial visit for the benefit of SAE Student Members of Collegiate Club in and around Chennai. This program was initiated and organised by **Mr.A.Hafiz Shiraz, Chair** and **Mr.P.Hariharan, Program Chair** of SAE Collegiate Club of B.S.A Crescent Engineering College.



A visit to India Piston Rings Ltd, a best in class manufacturing company in India situated in Maraimalainagar was organized on March 05, 2008. Students from Crescent Engineering College, Hindustan Engineering College, Sri

Sai Ram Engineering College has shown interest to participate in the visit by showing a number of 34 students. Three faculties also accompanied the students for the visit.



It was very helpful for the students to get to know about the 40 different manufacturing process of various kinds of piston rings.



These processes includes the winding cell, cutoff cell, the cam groove heat treatment cell and the width grinding cell, wherein the width of the rings are maintained a constant with automatic wear compensation of the grinding wheel.



Then the rings are classified based on the characteristics like Key Stone Angle profile etc. After classification based on the requirement it is coated with either Chromium , Plasma Vapour or Gas Nitriding to increase the case depth for the specified application life and wear resistance.

The steel oil rings are also manufactured in the plant with an expander ring manufactured in 8 stages and finally assembled in the packing section. After the rings are case hardened, the rings are then lapped for surface finish and dimensional accuracy. Finally the

rings are laser marked for identification. Then they are packed and dispatched after the quality check.



This was a nice opportunity to know about the processes and we would like to have more of this sort in future.

