

AutoCruise 18



Easwari Engineering College

Department of Automobile Engg.

Feb 2018

Detono 2K18

Third National Level Technical Symposium

The Student Society of Automobile Engineering conducted the Third National Level Technical Symposium DETONO 2K18 on 25th of January 2018. This function was inaugurated by Mr. Shankar Subburathinam, Division Head, Caterpillar India Pvt. Ltd. This symposium had various Technical and Non-



Currently Mr. Shankar Subburathinam is responsible for all the metallurgical related functions at Caterpillar India, Thiruvallur, supporting various business divisions like Global Purchase, Manufacturing (Mining division), Building & Construction Products (BCP), Advanced Components & Systems division

Technical events include Paper Presentation, Project display, etc. The main aim of the program is to encourage the college students and to bring out their talents and to build a healthy relationship between colleges in Tamil Nadu.



Mission

To be the best place for studying Automobile Engineering in the nation recognized for academic excellence and for contributing to the overall development of our region and broader environment.

Ambitious - It places the Department of Automobile Engineering at the forefront of the world's most significant issues

Aggressive - It will require a great deal of additional funding, above and beyond our normal and expected revenue increases.

Achievable - With the support of our management, faculty, students, alumni; and in collaboration with various organizations.

Event Details

The Student Society Automobile Engineers (SSAE) of Easwari Engineering College has organized the Third National Level Technical Symposium **DETONO 2K18** on 25th of January 2018. The event was presided over by **Dr.K.Kathiravan**, Principal of the college. The chief guest of the day was Mr. Shankar Subburathinam, Division Head, Advance Material Technology, Caterpillar India Pvt. Ltd. In his inaugural address the chief guest complimented the department of automobile engineering for having organized such an event at this juncture. He is also highlighted the benefits of becoming an automobile engineer and also informed the gathering assistants provided by the central & state government in this respect. He further urged the delegates to take up automobile engineering as this alone will not only enable them to go for greater heights but also responsible in the development of the economy.

Earlier in the day the event was started with invocation. Welcome address was given by **Dr.S.Sathiyamurthy**, Head of Department, Automobile Engineering. Felicitation address was given by **Dr. Antony Michael Raj**, Vice Principal (academics) and he congratulated the department for organizing this event. In his presidential address **Dr. K. Kathiravan**, Principal of the college stressed the need for becoming an automobile engineer in the current scenario and advised the department of automobile engineering to organize similar events in the future for the benefits of students & society.

Faculty Details

Well experienced
Faculty members (with
both Academic and
Industrial Experience).

Highly qualified faculty
member (with
Doctorate and Post
Doctorate).

Published more than
50 research papers.

After the Inauguration function, students from various colleges in and around Tamil Nadu participated in this Symposium. 14 events were conducted, both Technical and Non-Technical events including Paper Presentation, Project Display, Auto Quiz, Sigg.Mechanico, Herr.Techniker, Cadd Modelling and Gleaming gliders. The Non-Technical events were Musically, Short film contest, Cross fit, Motography, Meme Creation, IPL Auction and three other surprise events.

A good number of participants 148 students participated in Technical events and around 100 students participated in Non-Technical events. The whole program was planned, organized and all events were conducted by Students of Automobile Engineering with the guidance of faculty members. This symposium also hosted an Auto-Expo with world class Super bikes in association with Max Riders and top class modified cars in association with Fantastic cars.

Eminent Professors from various departments of our college and Research and Development faculties were the judges of the various technical events. Papers from various disciplines were presented on the day of the event. A good number of projects were displayed and the Dirt bike developed by students won the event. Cash prizes were given to the winner of the various events. Independent artist were called for judging various Non-Technical Events. This event was concluded with prize distribution function for the prize winners of various events.

A REPORT OF GUEST LECTURE ON “INDUSTRY EXPECTATIONS FROM FRESH ENGINEERING GRADUATES”

Department Of Automobile Engineering Had Organized Guest Lecture On **CFD Applications In Automotive Industry** For II, III, IV year automobile engineering students. The speaker for the lecture was **Mr.R VENKATESH**, Sr Engineer (R&D). **Ford India (Pvt) Ltd.**

Date
12 Feb 2018

Dr.S.SATHIYAMURTHY, professor and head, department of automobile engineering introduced the speaker. In his lecture **Mr.R VENKATESH** During the Session, he talked about the basic concepts on CFD. He gave a few case studies on it. With his very own style, he took the audience into the concept that he wanted to convey. His presentation was very unique and was down to the core. His session ended around 12.30 pm and the participants were given lunch break. This lecture helps students to learn the skill sets. The overall feedback about the lecture is good.

By

Mr. R Venkatesh

Sr Engineer (R&D)
Ford India Pvt Ltd.



Firm:
Ashok Leyland
Ennore

Date:
21 Dec 2017

Industrial Visit Report.

We are glad to inform that the Industrial Visit to **Ashok Leyland** (Eastland Unit, Ennore), conducted for Second Year students of Automobile **Engineering** department on the 21st of December 2017.

The students under the supervision of staff members **Mr. PM Subramanian** and **Mr. P Shakhivel**, departed from the college at 10:45 AM. The college bus served for the transportation. At around 12:25 PM, the destination had been reached, and a half-hour lunch break was taken, giving everyone enough time to get refreshed.

The first stop of the visit is **Shop IV**, which held the front wheel and Rear wheel axles of the different vehicles. These were all near-finished products and had only required finishing touches before being sent over to the Assembly Shop. The various parts of the Front Axle and Rear Axle, namely the **Drum brakes, Track rods, and other similar components** were discussed in brief.

The next stop visited is Shop **V**. On the way to this shop, the finished chassis of different vehicles have been observed. At Shop V, the finished engines kept at display. There are **two** types of engines manufactured at the industry - **The Hino** and **the Neptune**. While **Neptune engines** are manufactured for Commercial vehicles, the **Hino engines** are manufactured for special **Government Projects** such as in the Marine field, Defence equipment and the like.

The last stop of the visit was at **Shop VI**, where the final assembled vehicle would be tested. Here, the tests that could be observed were the **Headlight Alignment Test Steer Angle Test and Roller Brake tester**. We have learned testing procedure for different automotive components. The visit came to an end with felicitation given by training manager **Mr. Rex Peter**. At around 2:45, the students have boarded the bus.

Suggestions for Improvement:

- The visit would be more beneficial if **separation of the students** (there were **57 students**) into **group have done**, since the information could not be *effectively* conveyed to each and every student.
- Perhaps showing the **Manufacturing process**, and not just the finished product, could have provided a better insight into the level of work that has been put into making these machine parts.

Final Thoughts:

Despite some *minor issues*, the Industrial Visit on the whole was a very informative experience, and a lot have been learnt and experienced.



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Newsletter by Dept. of Automobile Engg