

Formula UBC Returns from the Formula SAE California Competition

Hour 20 of 30



California Speedway



Pit Setup



Event Preparation



Tilt Table Leak Test



Formula UBC would like to thank all of our sponsors and supporters for all their help and contributions towards aiding the team in completing a race car for the 2011 competition year.

The final Formula SAE California competition was held from June 15th to June 18th at the California Speedway in Fontana California. It may be important to note that next year's competition has been moved to Nebraska. The field in California consisted of 86 university teams from all around the world, including Canada, the United States, Mexico, Japan, India, Brazil, China, and many more. The competition venue has been moved to Nebraska for next year.

The Formula UBC journey to the competition was a 30 hour non-stop crusade down the I-5, towing the UBC Formula trailer. Taking shifts driving, fueled only by determination, we arrived in Fontana ready to tackle the upcoming challenges. Unfortunately, Formula UBC was forced to settle for a disappointing 54th place overall finish. However, the team took solace in the fact that we were able to pass the tech inspections with an un-tested, completely revised car. Judges complemented our compact frame design around the engine, which was also 10 pounds lighter than the previous chassis. The new compact design was key in reducing the moment of inertia about yaw axis thus increasing agility. Additionally, several other teams took interest in our 5-axis machined, aircraft grade aluminum uprights that we designed.



CNC Uprights



Front Suspension Setup



Chassis Welding



Exhaust Setup



Nose Cone Layup

More Pictures Online
www.formulaubc.com

Although Formula UBC was unable to compete in the dynamic events of the competition, the team was able to learn a great deal by going to California. The competition was a valuable opportunity to talk to other teams about their designs and ideas, as well as learn from their hardships. Sharing ingenuity between teams, we are keen to apply the knowledge that we have obtained into the design of the 2012 car. Furthermore, by talking with design judges and ex-participants of the competition, the team was able to learn and understand what it really takes to become a successful team. The simple changes suggested by the judges and our colleagues were eye opening and will undoubtedly prove helpful to the future growth of our team. We have already set new design goals and plans of action in order to make a much stronger showing next year.

Event Scoring

Event	Place
Cost	49 th
Presentation	47 th
Design	48 th
Acceleration	DNS
Skid pad	DNS
Autocross	DNS
Endurance	DNS
Total	54 th

2012 Design Goals

Formula UBC's design philosophy for 2012 is to direct available resources in such a way that competition scoring is maximized. In addition, the specific design goals for the coming year are:

- Advance manufacturing schedule to increase test time prior to competition
- Reduce weight while maintaining integrity
- Functional design with clean packaging
- Improve performance with increased analysis of components before manufacture

Working towards these goals, Formula UBC will ensure development of a race car with optimized individual systems that perform in harmony when put into one coherent package, and that is produced with adequate time for driver training and vehicle testing.

Upcoming Events: ASEE Conference (Jun 27,28) , Langley Cruise In (Sept 2011), UBC SCC Autocross, UBC Imagine Day (Sept 2011)

