



CLEMSON FORMULA SAE

TEAM NEWSLETTER

Volume 17

Issue 1

PRE-SEASON ISSUE

WE TAKE THE BREAK OUT OF SUMMER BREAK

While most students are out on the beach, we're busy at the shop and at the track preparing for the coming year. See how we're going to make 2014 special in this issue...

2 Introducing the new
CUFSAE Team Leaders

3 Summer Testing and
Team Progress

4 CUFSAE Fall Open House
and Other Events

4 Honda Performance Development
and FEV Join the team

Click the above logos to get more CUFSAE online

Find us online at your favorite social media outlet or at



www.CUFSAE.com

Another Year Is On The Horizon

A new year means new leadership for the Clemson Formula SAE team, and this year's leaders were superstars in the 2012-13 season.



Co-Team Leader - Grey Roberts

Grey is a sophomore mechanical engineering major and this is his second year on the team. After working hard in his first year, he earned a driving position for the 2013 competition and raced in the autocross and skidpad events. He will take on the co-team leader role with Kenny Brown, who will be continuing his leadership role for the coming year. The duo will tag team the team leader responsibilities since Kenny will be studying abroad for the fall semester.



Chief Engineer - Ian Garrett

Ian Garrett is a junior mechanical engineer and his role greatly increased in his second year on the team. He became the team welder after dozens of hours of practice and his fabrication and design allowed the team to finish the car for 2013 competition. He will assume design oversight duties as the chief engineer.



Production Manager - Charlie Morgan

Charlie is a junior mechanical engineer and this is his third year on the team. After driving in the acceleration event in the 2012 and 2013 competitions, Charlie will assume the role of production manager. His duties will include build process oversight and ensuring that the car is done in time for testing for the 2014 Michigan competition.

CUFSAE Legacy Chassis's On Sale

After fifteen years of building Formula SAE cars, we've got a great collection of our old chassis's. However, we're running out of space at the shop so we'd like to offer our chassis's to any of our alumni or supporters interested in taking them. Send us an e-mail at ClemsonFSAE@gmail.com to inquire about getting a CUFSAE legacy chassis.

SUMMER FUN AT CUFSAE

After finishing 14th place overall at FSAE Michigan 2013, the team was fired up for the coming year. With great finishes at our last two competitions and a fresh team, we decided that the summer was the perfect time to get on the throttle. Our push for a top 10 finish at the 2014 FSAE Michigan competition began in late May with testing at Clemson.

Digging into our notes from FSAEM 2013, we began looking into the issues we found at the competition. For example, late run brake fade during the endurance competition spurred a comprehensive brake torture test to examine brake travel, brake line pressure, rotor temperature and brake pad temperature across a mock endurance run. With the help of our chief graduate student, and undergrad alumni, Victor Gallas, the students staying in Clemson for the summer learned about sensor calibration and data analysis. The test results will now be used to guide brake prototype designs that will be tested later in the fall and ultimately end up on Tiger16, our 2014 FSAE Competition Car.

Test plans are in place to explore advancements in several areas of our design over the coming year. As we strive for a top 10 finish, it is projects like this that will help us to score more points by performing better on track and giving our students more experience to show in the engineering design judging. If you are interested in supporting a CUFSAE technical project, send us an e-mail at clemsonfsae@gmail.com to learn more about what we're working on.



The guys work on the brake system at a test day in June. Lots of data, and careful analysis will drive innovation for



**CUFSAE TO COMPETE
AT FIRST
ANNUAL FORMULA
SAE MATCH RACE AT
LAMAR COUNTY
SPEEDWAY**

The long anticipated First Annual Formula SAE Match Race at Lamar County Speedway will take place this October, 26th in Barnesville, GA. Schools from across the Southeast have been invited, and so far CUFSAE will be meeting competition from Georgia Tech and Georgia Southern Universities. To make it even more interesting, the event will feature multiple entries from each school, as legacy cars will also be allowed to race.

After Southern Polytechnic State University's successful invitational event last January, we are excited to have another event to prove our mettle against the best schools of the South. Look out for more information about the event on our website or social media outlets. If you're interested in attending, spectators are more than welcome and we'd be glad to have you in our pit stall!

Mark Your Calendar...

Our annual Fall Open House will be held on Saturday, September 14th! We will be hosting a meet and greet with the team at our facility in Clemson, followed by test drives for all registered guests in our 2013 car at Clemson's C1 Parking lot. Guests will be received at 12pm with hors d'oeuvres, and test drives will begin at 1:15pm following a safety briefing. Please send us an e-mail RSVP at ClemsonFSAE@gmail.com if you're interested in attending.

CUFSAE WELCOMES FEV AND HONDA PERFORMANCE DEVELOPMENT

We're proud to announce that both Honda Performance Development and FEV Inc. have decided to sponsor Clemson Formula SAE for the coming racing season! Honda Performance Development has pledged two new Honda CBR600 RR engines to the team, with which we plan to usher in a new era of powertrain development for the team. With our old Honda F4i platform growing more outdated every year, this donation offers our students to make a significant step forward in performance while give us a great learning opportunity. The engines will arrive soon, and then our students will be working through the process of profiling the engines characteristics so as to get the optimum tune.

Couple that donation with a sponsorship from FEV and we've got the resources for building a great powertrain package. FEV is an industry leader in powertrain systems, and a perennial supporter of the Formula SAE competition. With their support we can afford to buy sensors that will allow us to conduct analysis of our new Honda RR engines. Thanks to Honda Performance Development and FEV, we're starting the 2013-2014 season off strong. Thanks for your support!


