2010 DECEMBER NEWSLETTER

COMPETITION OVERVIEW – SWINBURNE UNIVERSITY 2nd OVERALL

The 2010 Australasian Formula SAE competition was held at Victoria University (Werribee campus) from Thursday the 9th to Sunday the 12th of December. Leading up to the competition, Team Swinburne completed a number of test days and was looking forward to the event. The Thursday of the competition is a set up day with Team Swinburne setting up their pit, which gets positive comments every year for how professional it looks, as well as going over the race car one last time. Friday morning started early with scrutineering taking place with the race car only requiring minor alterations to meet the stringent rules. After passing scrutineering, the race car then has to pass a 45° and 60° tilt test, an exhaust noise test as well as a brake test. After a minor leak which became evident in the tilt test was fixed, the car was ready to have a practice run on the test arena before the dynamic events began on Saturday.

Also taking place on Friday were the three static events; the Design Event, Presentation Event and the Cost Event. The Design Event is where each team demonstrates their engineering knowledge behind its choice on design and manufacturing of their race car. The Presentation Event is where each team demonstrates their business acumen to pitch their car to the judges as a 'one make' racing series. The Cost Event is where each team demonstrates their knowledge of the manufacturing processes used to build their race car as well as producing a report that costs all the components, materials, processes and fasteners used. This year Team Swinburne did extremely well in all static events with a 12th in the Cost Event, 12th in the Presentation Event and 6th in the Design Event. For the Cost Event, Mario Cappola did an outstanding job for Team Swinburne by gaining almost maximum points in clarity and accuracy of the cost report and only losing points on overall cost of the race car. Mario Cappola was then joined by Sean Lewis for the Presentation Event where they both put in a great effort selling Team Swinburne to the judging panel. For the Design Event, all members of Team Swinburne did a fantastic job to get the team into the Finals of the Design event (top seven teams), which requires a more rigorous discussion held on Saturday evening.

1

Saturday was another successful day for Team Swinburne with great results in all the dynamic events. The first dynamic event that Team Swinburne competed on Saturday morning was the Skid Pad Event which is a race against the clock that demonstrates the race cars cornering ability. The drivers for this event, Andrew Bowler and Matt Dwyer, completed the figure eight pattern in 6th place. The next event was the Acceleration Event which is a 75m straight line drag race against the clock where Sean Meldrum and Ben Seath put the car in 7th place. The final dynamic event held on Saturday is the Autocross Event; this involves a one lap sprint around a track that requires the drivers to navigate through numerous cones setup around the track designed to bring out the overall driving ability of the race car. Johnny Rachele was Team Swinburne's first driver around the track and set a hot lap before Tim Blanchard set the 2nd fastest lap, with only Monash University going faster!

The final day of the competition is when the Endurance Event (which also has points for fuel economy) is run; this event involves two drivers completing sixteen laps each of the track, while again navigating their way through the cones which were set up. Team Swinburne's first driver pair was Matt Dwyer and Andrew Bowler who were the first team to successfully complete the Endurance Event after Monash University failed to meet their allocated time. While the overall endurance time was not blisteringly quick, both drivers did an outstanding job to set reasonably fast times and to complete the whole event since that is the one thing that has alluded Team Swinburne the last couple of years. The second run later that afternoon saw Johnny Rachele and Tim Blanchard team up to finish with the 2nd fastest endurance time behind Monash University! This was a brilliant result by both drivers and ensured that Team Swinburne would finish 2nd overall in the 2010 Australasian Competition which was an exceptional result and an extraordinary effort by the team! This result would not have been possible without all the support Team Swinburne received from sponsors and supporters as well as the University and its staff. So on behalf of team Swinburne, we are extremely grateful and appreciated for all the time and effort displayed towards us, so thank you!

COMPETITION RESULTS

2010 Formula SAE Australasian competition:

PLACE	TEAM	COST SCORE	PRESENTATION SCORE	DESIGN SCORE	ACCELERATION SCORE	SKID PAD SCORE	AUTOCROSS SCORE	ENDURANCE / FUEL ECONOMY SCORE	TOTAL
1	Monash University	68.5	68.4	135.0	75.0	50.0	150.0	324.3	871.2
2	Swinburne University	65.0	62.8	110.0	52.6	29.3	126.8	312.4	758.9
3	Sophia University	52.6	58.0	87.5	59.4	37.0	85.6	322.8	702.9
4	University of Melbourne	65.3	63.5	91.0	50.5	33.2	70.6	279.5	653.6
5	Edith Cowan University	49.4	68.8	110.0	73.7	28.3	55.2	265.0	650.4
6	University of Missouri	67.9	70.9	115.0	56.5	32.0	90.9	189.0	622.2
7	University of NSW @ ADFA	71.2	63.1	125.0	68.5	15.7	34.4	159.2	537.1
8	University of Wollongong	76.0	67.2	90.5	45.6		22.9	177.0	479.2
9	University of Technology, Sydney	44.0	69.6	100.0	58.8	2.5	43.9	138.8	457.6
10	University of Auckland	57.2	75.0	150.0	22.1		108.6		412.9
11	Queensland University of Technology	73.7	50.4	57.0	52.0	29.9	104.1		367.1
12	The University of Adelaide	61.8	29.6	61.0			58.1	123.9	334.4
13	Curtin Motorsport Team	55.7	53.6	78.0	44.9	19.6	43.7		295.5
14	RMIT University	63.7	74.7	140.0					278.4
15	University of Newcastle	36.3	42.3	88.0	23.7		46.6		236.9
16	University of Sydney	68.4	74.4	85.0			7.5		235.3
17	RMIT Electric Racing Team	82.5	59.8	85.0			7.5		234.8
18	Tokyo Denki University	76.0	32.1	95.0					203.1
19	University of New South Wales	47.8	51.8	88.0			7.5		195.1
20	Yeungnam University	65.7	50.4	42.0	12.0		19.6		189.7
21	University of Western Australia	60.4	62.9	65.0					188.3
22	University of Waikato	77.8	54.5	53.0					185.3
23	University of South Australia	64.0	40.6	59.0	3.5	2.6	7.5		177.2
24	Swinburne University Electric	62.2	22.3	80.0					164.5
25	Deakin University	42.3	53.9	67.0					163.2
26	National Institute of Technology Jamshedpur	79.9	46.9						126.8
27	University of Queensland	35.4	45.0	20.0			7.5		107.9

SWINBURNE STAFF

Lastly, the Formula SAE project is a very demanding but rewarding project for all students involved. However our lives are made much easier thanks to the tireless efforts of many of Swinburne's staff, whose ongoing support and assistance is gratefully appreciated and does not go unnoticed. From the Faculty of Engineering and Industrial Sciences, thanks must go to Prof. John Beynon (Dean), Prof. Ajay Kapoor (Associate Dean), Academic Advisor Clint Steel; Technical Operations Manager Phil Watson; Warren Gooch, Meridith Jewson, Dave Vass and Alec Papanicolaou from the Technical Support team; Virginia Laurinaitis, Janine Jenkins and Martine Dickie from the Marketing department; Sudip Shrestha and Adriana Mare from the Finance department as well as Client Liaison Officer Victoria Jandayan. Thanks must also go to David Mackieson and Bob Smillie from Swinburne TAFE and Centre for New Manufacturing for their continual manufacturing support.

WEBSITE & FACEBOOK

Lastly, make sure you check out the team's website at www.teamswinburne.com for photos from the 2010 Competition.

Also, if you have a *Facebook*, make sure you become friends and fans of *Team Swinburne* to keep up to date with the latest news and see more videos and photos from the 2010 Competition!

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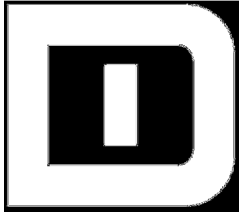
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