

Monash Motorsport Newsletter

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April/May 2009

Design Review

Earlier this month Monash Motorsport conducted our annual design review for the 2009 vehicle. This consisted of presentations by 11 of our team members on the design changes for this year to their peers. This gives everyone a chance to better understand the work of other team members on significantly changed parts of the car, as well as allows for the design and methodology to be critiqued. Comments from alumni, who were also present on the night, were invaluable in avoiding previously experienced pitfalls.

These presentations were preceded by a social barbeque. This was also followed by further informal discussion on specific design problems proving beneficial to a number of component designers.

The most important design goal for the 2009 Monash car is to improve fuel economy as we already have a basic package which has good track pace. These economy improvements will be achieved with improvements in engine efficiency from modified cam timing and fine tuning on the dyno, and a significant weight loss in as many parts as possible without compromising reliability.

Ross Perry
Chief Engineer



Design review presenters



Monash team members at silhouette Go karts

Monash Go Karting - Silhouette Karts

Monash Motorsport was delighted to host the First Go-Karting Championship for the year at Silhouette Karts in Somerton. It was a great chance for the new recruits to take on the Senior team members in a battle to reveal our best driver.

We were pleased to award First place overall to Daniel Phivopolous who has been a competition driver for the team for the last 3 years and will drive at his last competition come December. A special mention also to the guys who came first in their heats.

We'd like to thank the wonderful staff at Silhouette Karts who helped the event run smoothly for the large group of people in attendance. We'd also like to acknowledge that we've found their track to be the fastest outdoor track in Victoria and well worth the drive to Somerton. Thanks to Urvashi our new events organiser for making this night possible. We're all looking forward to the next upcoming Go Karting Championship on 16th July and are hoping to see some new driving talent emerge.

Rachel Mace
Team Leader

Hill Climb - A Great Result

Monash finish 1st and 2nd in class at Haunted Hills, Morwell.....

After a very successful first appearance at the Morwell hill climb the Monash M8 made a highly anticipated return to the Haunted Hills track on the 28 of February 2009. Despite the initial success, it was found that the M8 was slightly lacking in straight line speed for the comparatively fast and open track.

Realising this was a avenue for considerable gains in overall performance, Monash Motorsport conducted extensive aerodynamics testing on the M8 – a low drag setup was tuned to get some additional speed on the straight.

The pre race testing also enabled the team to introduce Launch control and Traction control to the M8 – providing greater consistency on launch and increasing driver confidence when feeding on the power.

The event was split over two days, Saturday was practice with two timed runs, and on Sunday was four timed runs. Though the M8 was entered in the non-log book class, Monash had a firm goal of being the fastest in the Formula Libre under 750cc class.

The M8 setup improvements were soon evident, with Ashan Perera setting a time of 52.87 on his first run – more than 2 seconds faster than his previous best. Cameron Glover finished the first day with a time of 54.94 having made a small mistake.

After the four sessions on Sunday, Cameron continually improved his times to finish with a best time of 52.00 and Ashan set his fastest lap on the third run with a time of 51.16. This meant that Monash came a very comfortable 1st and 2nd in its non-log book class, some 10 seconds ahead of 3rd place. The goal of being the fastest car under 750cc was achieved with the next fastest car almost 3 seconds slower. Outright, the M8 placed 5th and 6th—an excellent result

Monash would like to thank the Gippsland Car Club for hosting this fantastic event, and eagerly look forward to coming back and competing again.

Ashan Perera



Results from Hill Climb

Outright Results

1 91 HOWELL Andrew Gould
GR55B 50.36 49.60 49.43 *
48.32 48.32

2 991 HAYWARD Brett Hayward
08 49.51 50.25 52.02 49.25
49.54 * 48.74 48.74 0.42

3 199 ACKLAND Greg Ninja
BH1 * 50.29 50.91 50.32 50.45
50.77 50.95 50.29 1.97

4 8 MOODY Rod Cheetah 52.35
52.50 51.63 * 50.89 51.53 51.34
50.89 2.57

5 166 PERERA Ashan Formula
SAE 52.87 53.88 52.99 51.88 *
51.16 51.87 51.16 2.84

6 68 GROVES Cameron Formula
SAE 59.72 54.94 1:10.07 53.25
52.74 * 52.00 52.00

Class Results: Non Log Book Cars

1 166 PERERA Ashan Formula
SAE 52.87 53.88 52.99 51.88 *
51.16 51.87 51.16

2 68 GLOVER Cameron
Formula SAE 59.72 54.94
1:10.07 53.25 52.74 * 52.00
52.00

To Our Sponsors...

Monash Motorsport would like to thank our sponsors for 2009 for all the contributions and dedication they have provided the team. It is because of their generosity that we are able to compete at such a high level each year and for that we are grateful.



MONASH University



Sponsorship Focus - A Bending

Thank you to Peter Angelico and the team at A-Bending for their generous offer to sponsor us for 2009. We are pleased to be bending our front and rear roll hoops for the 2009 Chassis.

- Front roll hoop
- Rear roll hoop



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A Bending Company has been providing an essential service to a diverse range of Manufacturers, Wholesalers and Engineers since 1987.

Meeting the 2009 New Recruits

I am excited about the invaluable practical skills that I am learning both at TAFE and in the workshop and also the skills in CAD. For once I can put aside my books and apply real engineering practices and solutions.

Marc Russouw—2nd year

I have learnt some valuable practical skills working with the engine in the Dyno. The senior members have also been a great help teaching me what they know about the aspects of the car.

Austin Carter—2nd year



2nd Year TAFE group

This year FSAE welcome 32 new recruits to the team. Already they have began working on the car in each of their sections, learning the skills required to ensure the continued development of the car for the future.

Powertrain: Kerry Adams, Taran Batty, Adrian Bill, Austin Carter, Romo Herzog, George Kariotakis, Matthew Skara

Chassis & Driver control: Daniel Romeo, James Richards, Cam Paton, Nikolas Greig, Chris Health, Jeffrey Hughes

Aero: Brenton Summers, Timothy Johnson, James Fitzsimmons, Tristan Hart, Marc Russouw, Callum Brown, Campbell Duff

Electrical: Nikhat Nagin, Therese McArthur, Caillin Bathern, Jakon van Hest, Kuljit Panesar, Michelle Green

Suspension: Steven Webb, James Taylor, Travis Leenaerts, Ben East, Adam Mapson, Simon Bicknell

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Visit Our Website

www.monashmotorsport.com

Or for information on SAE-A

www.saea.com.au



The continued Platinum sponsorship we receive from the Chisholm institute is greatly appreciated as we begin to see our new recruits gain much needed skills in welding and machining.

Every week both the junior and senior team members travel to Chisholm; where under the guidance of our teachers much of the car is created. It is with their help and support that we have created such a competitive vehicle over the years and look forward to our continued partnership in the future.

