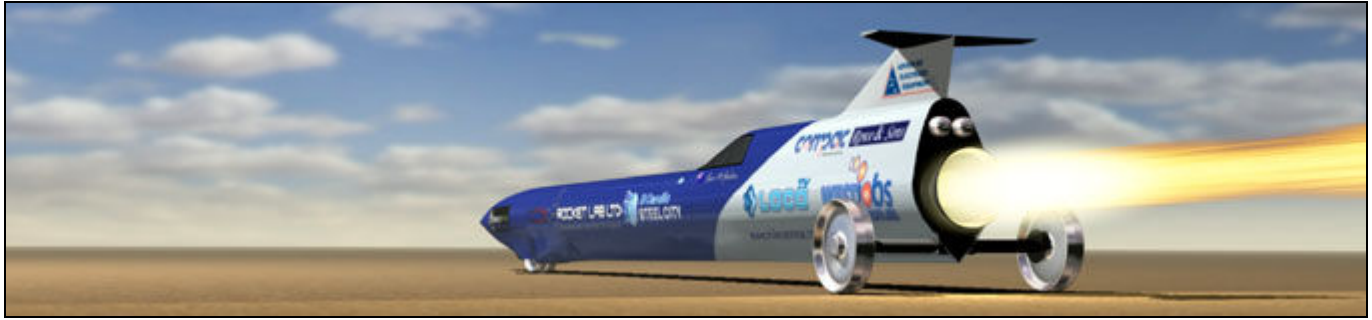




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## October 2011 - Newsletter

G'day sponsors, supporters, crew members, friends and Land Speed Record followers, welcome to our October newsletter.

We have just burned another huge month for the team with work on the more intricate areas of our car including the operation of our windshield canopy pneumatics, design of our onboard hydraulic systems including our power steering rack feed, emergency ground brake, and airbrake door hydraulics.

I and members of the team attended several sponsor meetings, I gave a couple of motivational talks and several of the crew including me went back to school, which was fun considering I left it at 12 years of age. The school was actually the BOC Operations Plant in Canning Vale, Perth to learn about the safe handling and usage of liquid oxygen which is being used as our rocket motors oxidiser.

### Front Suspension Support Ring Welded



<http://www.weldingtraining.net.au/>

Our first day of the month started with our great mates from **ENRYB International Welder Training**, MIG welding the support gussets to our front suspension support ring. This entailed positioning and fully welding a 900 mm x 50 mm deep support flange around the ring and then welding 25 support wedges on the inside of this ring to handle the full frontal load of our missile. What a fantastic job they did and thanks must go to Lawson, Rubin and legendary team member Chris Demunck.



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## High Pressure Regulators Located



<http://www.kempe.com.au/>

For a very long time we have been trying to locate a couple of high pressure/high flow regulators for our rocket motors blow down system. We have searched the world trying to find regulators that provide the constant working pressures and volumes needed to move 3 tonnes of propellant in 25 seconds into our rocket motors injector, maintaining a constant 500-600 psi.

Fortunately we were introduced to Brian from Kempe Supply Group in Melbourne who have the product for our needs, thank you Leo from Marsh Bellofram for the introduction.



<http://www.marshbellofram.com/>

## Canopy Has Hydraulics Fitted



<http://www.smcaus.com.au/>

We made some good progress with our cars pneumatic controls this month, SMC kindly donated the rams control valves and plumbing to lift and lower our cars drivers canopy. This system is pretty special allowing us to raise, lower or hold our canopy at any angle throughout its lifting arc, this will be especially useful in windy conditions or when the driver needs fresh air whilst waiting for a run. Thanks Chris Edwards and the great crew at SMC.



## Steering Set-up Progressing Well



The design and manufacture of our steering system has been a huge undertaking with most of our ideas being pooled together, discussed and decided upon by consensus. As with most of the parts manufactured for our car, a mock up is initially made in either wood or steel, the predicted loads calculated and this mock up part is then tested, if she passes the test we then produce the parts in the best quality product available. This method of building something gives us a good opportunity to hopefully get it right first time and helps us explain to our great mates at Di Candilo Steel City and

Total Cam Solutions what we need them to produce to get us to our next base. Thank you to both companies for your brilliant support.



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## Working Model of Air Brake Design

Chris Demunck has been busy modelling and designing our cars air brake. There was initial talk of building our air brake around the back axle, but that will increase the overall surface area of the rear axle shroud and we need to keep area down on anything close to the ground to stop shockwaves having a surface to lift the car as we approach and go through the sound barrier. This new and more conventional design is hydraulically activated and has to fit in very closely around our rocket motor hardware. Once completed it should be a work of art.



## The Vision Becomes Clear With Clarity



<http://claritycommunications.com.au/>

Our Public Relations Company Clarity arranged a great corporate get together for Alex Blain and me last week to present our project to some of Western Australia's leading companies. Alex and I polished our shoes, brushed our teeth and put on the best sponsorship pitch we could muster, this has led to some further

presentations and hopefully those illusive dollars is on the horizon. Thank you Anthony for arranging this and for the great lunch.

## Back to School



<http://www.boc.com.au>

The time is drawing closer to design our cars cryogenic plumbing layout and a lot of talk about just how we go about doing this has been going on. I have always had a mental design for this but the rest of the crew thought this needed to be

Taken to the next level, so I made contact with BOC Gases Australia's leading authority on the safe handling and design features of liquid oxygen vessels and filling procedures. We were blessed to have a visit from Graham Raywood, BOC's Senior Sales Engineer. Graham spent time checking out our cars layout and the ideas we had in mind for our oxidiser systems layout. He suggested that my crew could get some hands on experience by attending their Operations

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Plant and do a study on the handling and safety issues of the use of this product. Pete Taylor, Chris Demunck, Robin Punselie and I went back to school for the day at the BOC site and had a great time learning more about this product. Thank you Graham, very much appreciated.

### Whiteman Park Motor Museum Volunteers Pay Us a Visit



We had a visit to our shop by the good guy volunteers from the Whiteman Park Motor Museum last week. A very interesting group with lots of interesting stories, a WW2 fighter pilot, a bus driver, a cook, a car designer and some very clever engineers, what a day!



### Wheel Update Coming Soon – There Is Progress!

Hopefully our wheels will very soon be under construction, this has been a huge undertaking and our progress has been painfully slow. Our design engineer, John Ackroyd is considering taking valium to relieve the stress, but there is light at the end of the tunnel, more on this very soon.

### Track Search Goes On

An old mate of mine has recently done some race site searching for us in our states far north. He has travelled our Kurunjie Track near Wyndham in the Kimberley and explored several other alkali mud sites nearby (within 150 km, that's nearby in that part of the world). Hopefully we will locate our test track very soon.





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### Promethean Supply The First Interactive Whiteboard



<http://www.prometheanworld.com/>

This week the first Promethean interactive whiteboard arrived. We are in the process of getting it set-up, so cannot show you pictures of it in action, but it is going to be a great asset to the RACE (Regional Australia Community Education) programme. Once this is all set up we will show you more. Thanks must go to David Spencer the head of Promethean in Australia and New Zealand and his team for getting this to us so quickly.

### Aussie Invader V-Logs 3 & 4

Two more Vlog entries have been posted on our YouTube channel this month.



<http://www.youtube.com/watch?v=E80J2sefRIA>



<http://www.youtube.com/watch?v=hZzGMf6-3uk>

That is about it for this month, so until next month, be your very best.

*Rosco McGlashan*

**Rosco McGlashan OAM**  
Fastest Aussie on Earth

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