



SPECIAL POINTS OF INTEREST:

- Join us at our Come 'N' Try day on 8th September!
- We have our official event schedule!
- Did you catch us at Science Alive?
- RoboRoos win the Brownlow equivalent at DDU - The Inspiration award!

INSIDE THIS ISSUE:

Report from the chairman_ Peter Ryan-Kane) 2

Science Alive ! 2 (By Charlie Ryan Kane)

Duel Down Under! 2

This Season's Events! (By Enzo Rugai) 3

Cooper Pedy Area School at our open day 4

RoboRoos Newsletter

SEPTEMBER, 2015

RoboRoos Open Day!



Open Day this year was filled with flashing lights, laughter, shooting robots and excitement. Starting off at 10 o'clock, our new premises were packed to the brim all day. Some of the highlights of the day were driving our three active robots (the Frisbee shooter, the ball thrower and the crate stacker) from a

joystick station, programming NXT robots, playing ninja and making 'I CAN SOLDER, RoboRoos' flashing light badges sponsored by National Science Week. The sausage sizzle went off with a bang, filling the air with a delicious scent, and gone within two hours. Old members, mentors and parents min-



gled with interested members of the public, chatting merrily away. We picked up a couple of definite new members for the team and put some other potentials on the mailing list.

Channel 7 turned up and started capturing the action for a piece to be run on the news. Overall the day was a definite success, and everyone one had a whole lot of fun - an amazing day well spent.

(By Emily Mansfield and Brooke Zibell)

Captain's Report

Welcome to the 2015/2016 season, after a successful 2014/2015 season. We look forward to new members, new ideas and new events. As the Captain of the FRC RoboRoos team, I look forward to meeting new people and keeping old friends. In this current season, I am aiming to create more social events for the students. We will also be improving communication within the team, and with our sponsors.

As the 2nd Captain of the RoboRoos, I wish to acknowledge the achievements and amazing progress that the previous captain, Mila, did to make this team possible and to build the team to what it is today.

The 2015/2016 season will be fun and I look forward to working with everyone and doing more events. The next FRC competition (lets hope it's water themed), will

be challenging. I intend to push the team to their limits and make the best and most creative robot they can. Remember, it's not just about winning, FIRST is about teamwork, innovation, friendship, science, technology, engineering, maths, and most importantly, fun.

From your FRC Captain, Belinda Rutherford.

"We almost look professional..."

Report from our Chairman

Another successful chapter in RoboRoos history. We have moved into our new build site - complete with new wall, door, driver training field, and the initial signs of readiness for the coming build season – thanks to all who contributed to our readiness. We have had another successful outreach season with public events at Science Alive, Avcon, Open Day, as well as school and Uni demonstrations. These

events provide an opportunity for current and past (our Alumni) students to showcase, explain and excite the public with their achievements, as well as recruit new members. It was a proud moment to be able to show our sponsors and supporters how far we have come and discuss with them our future plans – one long time RoboRoo said to me – “we almost look professional”... We are about to commence our training

sessions to prepare students to take on the challenging tasks in the build season – if you wish to attend any of these courses please register via the training tab on the RoboRoos Website www.roboroos.org.au

We will close membership prior to our 20 September club day at the shed, so please get joined up and paid up – we welcome all of you.



Science Alive!



With the bang from the Beach Energy Theatre, Science Alive was alive with excitement. With roughly 4000 students coming through the show

grounds over three days, we were kept on our toes. We had our latest robot Kermit on display with kids taking him for a roll. We had many expressions of interest, and lots of kids walking away with their own personalized robot driver's licence. It was a major asset to have BAE systems as a sponsor and to be able to use their stand as a display space to

show off our robot. All together it was a very successful event where we got many new members and also able to show off our robot to potential sponsors.

Duel Down Under



In June, our team was invited to compete in Duel Down Under following our efforts at the Sydney Regionals. Not only were we finalists, but we were the proud recipients of the Inspiration award, celebrating success in advancing respect and apprecia-

tion for engineering within a team's school and community. Congratulations to all that participated!

This Season's Events

The RoboRoos would like to welcome everyone that has filled out expression of interest forms, and we look forward to hearing from you soon. For those who were unable to attend our open day, we would like to invite you to our 'Come n' Try Day' on the 8th of September at our workshop. See our website for details.

This is an exciting time of year for us, both because of our

new members, and the start of our training season. Beginning on the 20th of September, all members will have the opportunity to attend training in many areas. This includes CAD training at Adelaide University and software training at UniSA in the upcoming school holiday. In term 4 we will offer training covering Electrical, Media, Software, Pneumatics, and Mechanical subgroups, as well as compulsory safety training.

During this period, the students will learn to engineer systems, work with power tools, design circuit diagrams, create animations, and code, all in preparation for the upcoming build season where they will have to work as a team to create a robot in a mere six weeks.

We encourage new members to return their application by September 13th to our Treasurer

Fiona.Mansfield@roborooos.org.au

8th September

Come n Try night

22 Leeds St Wingfield (Workshop)

7:00 pm – 8.30pm

20th September 2015

Meet new members

Tool competencies/Trophy Cabinet – Workshop

Media – Animation/Frame your physics

Electrical – Advanced Theory

School Holidays

Week 1: CAD training at Adelaide Uni – University of Adelaide

Week 2: Software training at UniSA

Build driver station and trophy cabinet at Workshop

13th October 2015

FLL Challenge Set Build Evening – Workshop

25th October 2015

Software training – basic programming

Pneumatics training

Systems engineering – existing robot update

1st November 2015

Mini-Maker Faire – RoboRoos outreach event

15th November 2015

FLL Competition – Prince Alfred College

29th November 2015

Wiring diagrams

Build driver station

Safety animation

8th December 2015

Tuesday Club Night – Student's Choice – Workshop

13th December 2015

Safety Course – Workshop

Open day visit by Coober Pedy Area School

Flashing badges
light the way...

This is the first year that the RoboRoos have provided an event as part of National Science Week. With our grant funding we provided free come n try soldering activities promoted via the national website.

The Coober Pedy Areas School noticed our event and arranged a morning session for their students to visit our Wingfield workshop so that they could drive our robots and

create flashing LED badges in a session dedicated to their group.

We enjoyed sharing our excitement for robotics with students from the out-back and would like to strengthen our connection with the school. Thanks go to their Science and Maths teacher, Mr Ravi Padayachi who arranged the visit.

 national science week 2015

RoboRoos team
members with
Coober Pedy
school group



City of Unley— Community Grants



Belinda and Ryan presenting

The City of Unley provided us with a grant for \$4,000 this year. On the evening of Thursday 30th July, our Team Captain, Belinda, and our Safety Captain, Ryan Faulkner represented the RoboRoos at the ceremony for City of Unley

grant recipients.

They were one of two grant recipients asked to provide a short presentation on the team and what it was able

to achieve with the support of the City of Unley. Councillors and other grant recipients were very impressed with the presentation, with many taking the opportunity to speak with them to find out more. We were also able to promote our

upcoming Science Alive visit via their Facebook Page and website.

“RoboRoos FLL team - building robots, solving real world problems and having a great time!”

Lego League Competition commences

On the 23rd of August at Wingfield the RoboRoos had an open day. At the open day the RoboRoos had a junior program called First Lego League. At FLL there was a station where you could watch a lego robot do a challenge and play with a robotic elephant made of lego.
By Georgie

The RoboRoos welcome nine members to the lego league team this year. They have started work on the Trash Trek challenge and are looking forward to building robots, solving real world problems and having a great time working as a team.





Hopping into engineering!



Who are the RoboRoos?

We're a community group, FIRST® Robotics Team and so much more—including South Australia's first and only FRC team.

The team's purpose is to excite young minds about STEM (science, technology, engineering and mathematics), by using a common interest: Robots.

As part of this, students get real industry experience, with help and guidance from dedicated industry professionals as mentors. It circumvents the age-old circle of being unable to get a job due to lack of experience.

Part of our ethos is to maintain a gender balance, which we continue to strive for and achieve.

www.roboroos.org.au

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