



Roboroos Newsletter

HOPPING INTO ENGINEERING

SEPTEMBER 2016

CLUB DATES / UPCOMING EVENTS

Tues Sept. 20th -
Technoplas visit

Sun Oct 9th
Vision Systems and basic
Software

Tues Oct 18th
Gears and Mechanical
Concepts.
Advanced Electronics

Sun Nov. 6th
Mini Maker Faire

Sun. Nov. 13th
FLL Competition

For more details :

www.roboroos.org.au

INSIDE THIS ISSUE:

Chairmans chat |
Captain and
Vice Captain

DDU 2

Science Alive 2

Open Day 3

Oliphant Science 3
Awards

Students in the 4
Media

Sponsors 5

Chairman's Chat

Hi Roos,

Our demonstration season has been going well with good profile at Science Alive, Oliphant Science Awards, our Open Day as well as schools around Adelaide.

We have further opportunities for you to showcase our Club and our Robots at the Fll competition day. Thanks to all Club members who volunteered to help out. Keep an eye out for the roster for coming events.

We continue to plan for training and fun at our Tuesday Club Nights and Sunday Club Days. Keep an eye on the website and email alerts

for these - we are putting these on for you so please support them with your attendance.

I am really pleased to congratulate once again our Student Team Captain Belinda and Vice-Captain Kirsty and I look forward to your support in helping them grow as leaders and meet their own and the Club's goals.

Go Roos, Peter Ryan-Kane,
Chairman



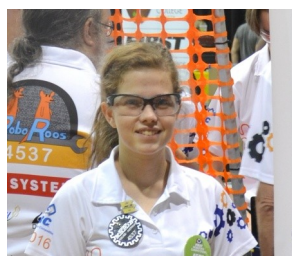
Captain's Corner



As a new season starts, I am delighted to announce that Kirsty and I will be leading the Roboroos as Vice Captain and Captain of the FRC team respectively. We look forward to the year ahead and are hoping for great things. We are delighted to spend the year with old and new friends, doing what we are passionate in, FRC, Robotics, and STEM.

Go Roos! Belinda

Vice Captain



Hi all, my name is Kirsty . I feel very privileged to be undertaking the role of Vice

Captain for the remainder of 2016 and for the 2017 season.

I am keen to learn more about the club and the sub teams as well as all members, Alumni and adults. If you have any questions I am happy to answer them or direct you to the person who can answer them. Whilst this will be my second season with the club I

have been participating in various leadership roles for different organisations and I feel the skills I have learnt will assist me in doing the best I can as the Roboroos 2016 / 17 Vice captain. Thank you for your support.

Kirsty

DDU Competition—Sydney



This years DDU build was fabulous with enthusiastic mentors, enthusiastic students and a high level of competition exposure. It was a great opportunity for newer members of the club to get hands on experience in designing and building a robot and participating in the competitive environment but with the overriding aim to enjoy the experience. A BIG thankyou to Adam who facilitated the build and made it a fun and productive experience for those involved.

Student's perspective:

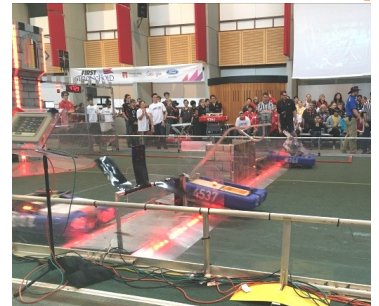
I really enjoyed DDU because I got to meet a whole bunch of people and make so many new friends.

At the same time I was extending my knowledge of the robots just by working in the alliances with the other teams. The competition was great because we had to do a tie-breaker in the quarter finals!

Unfortunately, we didn't win but our alliance did really well. We were with Robo Rebels and House of

Wullamudulla. House of Wullamudulla was pretty cool because they had gone to St Louis In the competition just gone by. Overall I really enjoyed DDU and it went really well.

Kara Jenkins

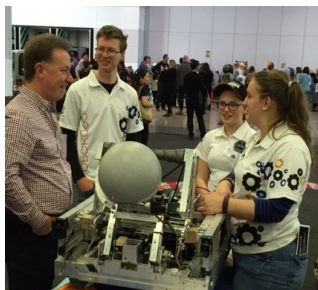


*"Thankyou to
all of you who
helped out
over the three
days of
Science Alive"*
Peter

Science Alive



Thankyou to all of you who helped out over the three days of Science Alive.



We had over 100 signups to express varying degrees of interest and get on our mailing list.

We also had some very good interaction with BAE, who hosted us in their

stand. We met and had good conversations with their CEO, Marketing Manager and Events Manager as well as two of the young engineers who have volunteered to help us out with the coming Build Season - Caroline and Liam - they all got their drivers license thanks to the coaching of our RoboRoos...



It was great to have a visit from our supporters at Adelaide university who hosted the Systems Engineering Course we put on last month. Thanks also for the ongoing support from UniSA.

Peter

Robo Roos Open Day 13th August 2016



RoboRoos held their open day in conjunction with and support from the National Science Alive Week.

The open day was held at the RoboRoos workshop at Wingfield. We had a terrific number of people come throughout the day to see what the club is about with some potentially becoming members. Visitors had the opportunity

to get their own robot drivers licence as well as participate in soldering workshops to make their own Roboroos "I can solder" badge.

The five soldering sessions offered were fully booked prior to the day. There were a few no shows which allowed for people who didn't book or didn't

know about the session beforehand to also participate. All those participating in the soldering sessions enjoyed themselves, learnt a new skill and walked away with a great badge.

The Open Day was a terrific opportunity for the members of the club to talk to others about what the club does as well as how much fun we have during the build season.

This was a great day and I'm sure that everyone who came found something interesting. Thankyou to everyone who helped out and came along on the day to support the club.

Kirsty and Geoff

The Open day was a terrific opportunity for members to show what the club does and how much fun it can be.

Oliphant Science Awards



On the 28th of August Ali, Brooke, Charlie, Ryan and I presented at the Oliphant Science awards.

We were suprised to see the



great space we had been given for after our presentation for the children to drive the robots. We all presented a different aspect of the club then we had to get the robots off

the stage before we were flooded with children at our stand wanting to drive them.

At times we had two robots in action – the ball thrower and the crate stacker so that all those lining up got a chance to drive. It was a great day and it is fantastic to see children interested in robotics even if it is just for the fun of driving them.

When we arrived most of us noticed a sign that said free fairy floss so one guess what we had for morning tea and afternoon tea.

Thank you to Fiona and Geoff for making sure the robots

were delivered safely so that the presentation looked as good as it did, and thank you to the other adults involved in making it happen especially Pam and Tracy who also were there all day.

Kirsty



Students in the media

Access your inner mad scientist



Picture: SAM WUNDKE

Robotics Club of SA members Ali McDonald and Charlie Ryan-Kane.

Wingfield's Student Robotics Club of SA will host an open day this Saturday as part of the event, showcasing the club's former competition robots. Children from the age of 10 will be able to learn basic electronics and soldering to build their own flashing RoboRoos badge. Club chairman Peter Ryan-Kane said the aim was to teach science, technology, engineering and mathematics in a unique way. "Robots are an attractive way of packaging things up that could otherwise be a little dull," he said. "We focus on teaching the electronics and the technical skills to build a robot. "We'll have four operating robots, and they're all roughly the size of a washing machine." He said there would be demonstrations and seminars teaching the art of robot building.

10 Aug 2016 Portside Messenger David Penrose

Robots take over the school



DEAN MARTIN

Bryce Simmons, 17, and Jess Shannon, 15,

Students will watch a demonstration of a police bomb robot and aerial drone to understand the process behind the technology as part of National Science Week. School science co-ordinator Paul Beneke hopes the 2016 theme – Drones, Droids and Robots – will encourage students to pursue robotics subjects next year. Year 8 and 9 girls will also go on an excursion to Adelaide Uni where they will take part in a robotics and coding session. Year 10 student Jess, who is part of Adelaide's student robotics club RoboRoos, presented a robot demonstration to her school mates on Monday. "They are fairly big robots, they are all 50kgs, and one of them is almost as tall as I am," Jess says.. Year 11 Banksia Park student Bryce, who has been part of RoboRoos for almost five years, says robotics is leading him towards his dream career of becoming an astronaut. "Robots are really fun to drive and build and there's the social aspect as well because you make a lot of friends," Bryce says .

17 Aug 2016 Leader Messenger Sarah Spencer



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

Sponsors—THANKYOU

BAE SYSTEMS



University of
South Australia



Altium

**Rockwell
Automation**



Vellex