

www.roboroos.org.au

Student Robotics Club of S.A. Inc

RoboRoos Newsletter

**NEW MEMBERS
WELCOME**

CLUB DATES / UPCOMING EVENTS

Tuesday's

FRC Club Nights

Every Tuesday 6:30 pm - 9:30pm at
Tabor VET Department, 68
Greenhill Road, Wayville, SA 5034

Sunday's

FTC Meetings

Every Sunday at UNISA City West -
Jeffery Smart Building - Room
JS5-13 (5th Floor).

Tue, Oct 23

Adelaide Uni's Ingenuity

9:00am - 3:30pm

Adelaide Convention Center.

Sat, Nov 10

FLL Novar Gardens
Regional Competition

Sun, Nov 18

FTC Competition Day

Sat, Nov 24

FLL South Australia State
Competition Day

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CHAIRMAN'S CORNER

A group of our newer members together with some of our Alumni and Mentors Adam and Geoff worked with great cooperative spirit to iterate from our FRC robot a spindly "hands up" robot for the DDU competition in Sydney. Regardless of the scoreboard result students extended their skills and competition experience which bodes well for next year's FRC build.

In parallel, Rob lead a group of students taming and aiming those darn green balls - aren't the designers of FIRST challenges a subtle mob? Here, we didn't quite get our demo robot, but we did build knowledge and skills which is the point of off-season training, like any sport. Wendy lead and nurtured the social and student well-being aspects of the Club.

Our two FLL teams, East and South are up and running in the early part of their seasons - good luck to both teams. At the Club Management level, we held our AGM, with thanks to all of last year's office holders and appreciation to those who have stepped up this year, including some first year parents which is great to see.

A group of students met to plan and plot our path to Chairman's Award submission and it is great to see this being Student led. We continue to strengthen the cooperation framework with other FIRST teams in SA, with more to come on that in coming months.

My thanks to all Students, Alumni, Mentors and Volunteers for a promising start to our 2018/19 year.

- Peter

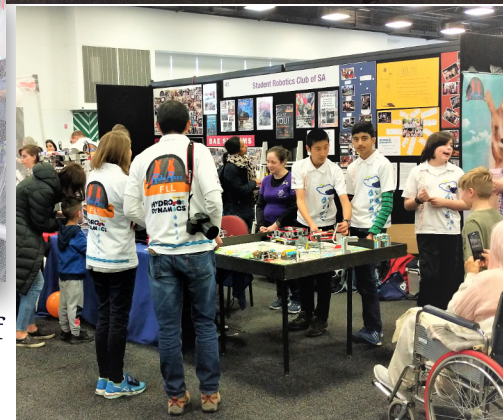
A FRIENDLY REMINDER

All Students and Alumni must be registered and financial, with fees paid, to participate in Club endorsed and run activities. The Club can't run unless everyone makes their contribution.

OUTREACH REPORT

We held the first of our major Outreach events for the year, with our very own stand at Science Alive which enabled us to spread out and illustrate the breadth of the program we offer students from across the Adelaide community. It was great to see our Students talking with pride and ownership about their achievements and experience - there are no better ambassadors for the Club than our Student body who can relate to peer group public. Well done to our two impromptu media representatives, Jack and Alan - Check out the link to the Channel Ten news story on our web page.

Thanks to everyone who helped with set up, three days of public interface with over 40,000 attendees over 3 days and pack up. We took 100 expressions of interest that are being followed up by the Management Pod.



ROBOROOS BADGE MAKING FOR SCIENCE WEEK (AUGUST 14,15)

After a very successful Science Alive, the Roos had a follow up "Come and Try" day. This was held during science week at Port Adelaide Enfield Greenacres library. We got busy calling the expressions of interest from the weekend of Science Alive. Participants learn't about basic electronics and created our famous flashing badges. Participants also got to see and ask questions of our current RoboRoos learning more about FRC and FTC robots. We had a good turn out with 25 people over the two nights. We would like to thank everyone involved for

creating such an important outreach event. Thank you, students, mentors, alumni and sponsors.

Thank you for funding made available by Science Week and PAE library.

-Andrew



OUTGOING CAPTAIN'S MESSAGE

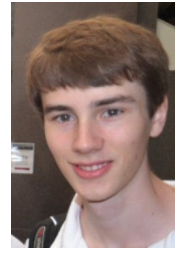
Hi Everyone,

Congratulations on another successful season of FRC! After an intense build season, we placed 12th at the Southern Cross Regional, so again congratulations!

This season as captain, I've mentored and passed on my experience to the newer members so that the club can build on the experience of the older members and continue to grow and thrive in the FRC world making improvements each year. Currently the DDU team is busy modifying and preparing the robot we sent to the regional in

a simpler manor to teach newer members about the robot and the team in preparation for next season. Also, we are designing and building a new robot from scratch for demonstration purposes such as Science Alive. These training activities along with more which we have planned should give us the best opportunity for next season, so stay tuned for these training activities.

-Bryce



NEW CAPTAIN WELCOME MESSAGE

Hi everyone,

My name is Jess Shannon and I'd like to introduce myself as the new Student Captain of the Student Robotics Club of South Australia for the 2018-2019 season.

I'm excited to extend my leadership within the SRCSA and I can't wait to start contributing my part to the ongoing improvement and development of our community club. I'm in my fourth year with the club, and as many know I was the Student-Vice Captain last season. Last season I made it my goal to continue as club to inspire other students to love science and build great friendships with all our new students entering our club, I was so proud of all the students making a great point of including everyone and having a great deal of fun while building our robot for FIRST Power Up! This year I hope to do much the same, but also, I'd love to encourage more students to get involved with organizing training, designing posters, generating ideas for events and generally just letting their creative and entrepreneurial spirits flow! As many of us learn't in Sydney this year they have added A for Arts in to STEM now making it STEAM, so the time is now for us to

really couple our skills in creative forms!

When I'm not slaving away soldering up connectors for the robot, I like to roller-skate, play guitar and draw. You will generally find me mixed up in some new creative project or on a new forum! And of course as the year is nearly coming to a close doing plenty of homework! But this is great news as it means the robot building time is nearly upon us again, so look out for information to do with FLL, FTC or FRC over the coming weeks. This years theme is all about space so I cant wait to see our students launch into orbit and explore deep space!

I look forward to working with you all again and meeting all our new students and mentors. If you ever want to talk to me about any ideas or concern feel free to find me or write me an email, myself and Vice-Captain KJ are here for you.

Go Roos!

Jess



FIRST ROBOT RUMBLE

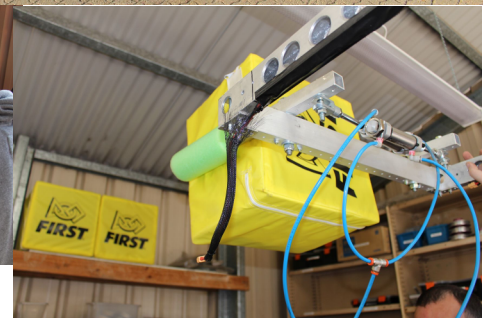
On Sunday 24th of June, the RoboRoos, joined by FRC teams "Team Pedare" and "Koalafied", were able to hold South Australia's first Robot Rumble! The day was made possible thanks to ASC, who sponsored the day and lent us the use of their canteen to turn into a field for robot driving. ASC also organized some fabulous presentations from engineers, Australian Battle Bots and Flinders University, which covered interesting topics about robotics, providing a great learning experience to the students.

Out on the Robot Field was crowded as over 150 people attended the event! Students from all teams were very eager to try out RoboRoos 5 robots that came out for the event, especially the frisbee thrower. The success of the robot driving goes to all the students who took the time to teach others how to drive the robots and take control of the situation to keep everyone safe, well done, all the people you spoke with were very impressed at your maturity and knowledge about robots.

Perhaps the highlight of the day was the tours of the submarine building facilities, where we were able to get up and close with two submarines. The tour was fantastic full of information about the submarines life span, repair process, different jobs associated, history and what submarines are actually like to be on!

The day also included a sausage sizzle, of course. The ASC Robot Rumble, all up, was a fantastic day, for the students to learn and for FRC expansion in SA.

-Jess



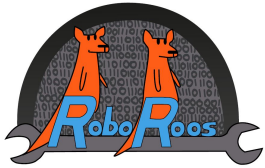
CLUB AGM

The Club held its AGM at our Hillcrest build site on Sunday July 1. Highlights of 2017/18 were presented by the Club's captain, Bryce and its Chairman, Peter together with the Club's financial position from Fiona. The Captain, Treasurer and Financial reports are included in this newsletter.

LIKE TO VOLUNTEER,
PLEASE TAKE UP A
POSITION!!

At the AGM, nominations were called and positions voted in as set out. Some key roles remain unfilled, but the Club is fortunate to have very capable and willing volunteers to continue to take the Club forward.

| Role | Volunteer |
|----------------------------|-----------|
| Chairman | Peter |
| General Manager | Fiona |
| Treasurer | Damian |
| Secretary | Sharon |
| Training | Rob |
| Outreach | Peter |
| Core Values & Team Culture | Wendy |
| FLL Management | Drew |
| FRC Management | |
| Recruitment & Membership | |



HOPPING INTO ENGINEERING



Who are the RoboRoos?

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

Contact us at: roboroos@roboroos.org.au

LOOKING FOR SPONSORS

We are looking for additional financial support for the Club to enable us to continue to offer and run our programs. If you have ideas or know of organizations or individuals who can provide support please refer them to Peter or Fiona. We have four sponsorship levels at 20, 10, 5 and 1 thousand dollars and a supporter level at up to a thousand dollars for the season, entitling supporters to differing benefit levels. We are open to discussions on the form of both monetary and in-kind support.

SPONSORS – THANK YOU

BAE SYSTEMS

**Rockwell
Automation**

THE CITY of
Unley

Vellex

 **Techno Plas**
SERVICE | INNOVATION | RESULTS



applidyne
Engineering Design Solutions

 **ADELAIDE**
PNEUMATIC SALES

City of
Norwood
Payneham
& St Peters

 THE UNIVERSITY
of ADELAIDE
SUB CRUCE LUMEN



University of
South Australia

A.G.PULIE

 **Blackbird**
VENTURES


Don Alan Pty Ltd
ELECTRONICS THAT ENABLES