



www.roboroos.org.au

**New season
1st July:**

**New members
welcome.**

Contact :
[roboroos@roboroos
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**Club Dates /
upcoming
events**

May 26 School
Demonstration

May 28
DDU team build
commences

July 3 -5
DDU competition
Sydney

August 20th.
Science Alive—Club
Open Day

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Hopping into engineering

MAY 2017

Chairman's Chat



Hi Roos,

What an amazing few months for the RoboRoos!! For the first time, we had both an FLL and FRC teams at the Worlds. Congratulations to both teams, those who made the journey and those who contributed through the build and previous competition rounds - a great team effort. For those who went, I hope this is a formative part of your STEM journey and helps to reinforce the impact that being involved in RoboRoos can have. To all the supporters, volunteers, mentors - thank you, with a special thanks to Piotr and Michele, our two dedicated and passionate Lead mentors - we couldn't have done it without you. A special thanks to our

supporters who provided additional financial support for Houston - thank you.

As I look forward, I am both excited by the future for the RoboRoos and, as usual, worried by our fragility. We are still very reliant on a few dedicated supporters and a few parents. To move to the next level, or even maintain this level we need to keep improving, both on and off the competition field. More on that topic in coming weeks.

In the meantime, enjoy the feeling of the success we have had, remember what it feels like, and grow as members of the STEM community

Go Roos, Peter Ryan-Kane, Chairman

CAPTAIN'S CORNER



How can the season almost be over!

This wonderful season saw all our students grow more as people and creators. Our students had to puzzle solve and rebuild almost everything. I'm so proud of how we performed at the Regional competition, and how many of us spent so much time helping other teams. And what a surprise when we discovered we were going to the World Championship. Though I couldn't make the championships, I'm so proud of how we performed, and could not be happier with the results.

I want to thank everyone for their ongoing support, whether you are a student, mentor, sponsor, or you run the parental taxi service, we couldn't have gotten to where we are at today.

Belinda
Team Captain

Vice Captain



After a fantastic build season and building a robot that for once did not break down on the first day and had very minimal breakage which was fantastic.

The regional competition went well and it was great to see the teams communicating with each other and helping each other out.

Whilst we did not win on the winning alliance we still achieved our way to worlds by receiving the engineering inspiration award.

We had a small group of

our team head over to Houston in April for the world competition and managed to be an alliance captain of the 7th alliance which was a great achievement for the team.

Kirsty Lithgow
Vice-Captain

FRC Build — media

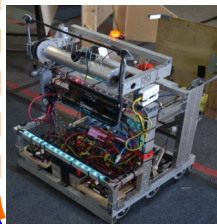


“FIRST® Robotics Competition is the ultimate Sport for the Mind where imagination and innovation come together! “

The Build is always a frantic time of year. The challenge is set, the initial planning begins.

Decisions need to be made about not only construction, the focus the robot will take but also strategy is an important consideration.

6 weeks goes quickly with the whole team involved in different aspects of the build.



Everyone was committed to building the best robot they could and it

was a credit to them all that come competition time the robot was remarkably robust.

I would like to thank everyone involved in the build season, the mentors, parents and particularly the students. It was also great to see so many supporting the team in Sydney. For those that couldn't make the trip to Houston—there wouldn't have been a trip to the World Championships without all the hard work of all involved during that critical build season.

Just prior to the team heading to Sydney. The **ABC program BTN** (Behind the News) sent a reporter to file a story on the RoboRoos.

Amber did a terrific job as spokesperson and a big thankyou to Emily and Charlie who provided footage of the Sydney competition for the story . The story was aired soon after returning from the regional competition.

<http://www.abc.net.au/btn/story/s4641121.htm>

Tracy H (secretary)

FRC Sydney



The RoboRoos student robotics club travelled to Sydney, from the 13th to the 16th of March, to compete in the FIRST, (For Inspiration and Recognition of Science and Technology), Robotics Competition, Southern Cross regional.

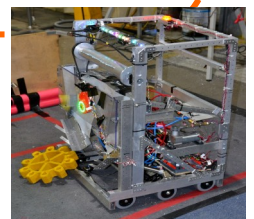
The regional event consisted of 30 national and international teams including Australia, America, China, Brazil and Taiwan all competing for a place at the championships.

Our team, #4537, placed 6th after the 52 rounds of qualification matches, allowing us to qualify to play in the play-off matches, to win our spot into the finals of the regional event. We were in an alliance with two other teams, one from Singapore and the other from South Australia as well. Unfortunately in a three round fight for our

spot our alliance was knocked out 2-1 wins in the quarter-finals. We thought this would be the end of our competition story...

During the awards ceremony, the winning teams of many awards are acknowledged, and much to the teams delight we were awarded the Engineering Inspiration award for our regional, this qualified us to compete at the World Championships in Houston, Texas. It wasn't long before the team flew out again as the competition was on the 19th to the 22nd of April

Bryce Simmons



FRC - HOUSTON



More than 60,000 people attended the 2017 *FIRST*® Championship, held for the first time across two cities, Houston and St. Louis. It brought together 30,000 students on 1,400 teams from 62 countries – and not to mention more than 1,300 robots – for the world's largest celebration of STEM education.



At the world championships we placed 8th out of 63 in the Galileo division before again being knocked out in a tight match in the quarter finals by 3 points in 2-1 win for the other alliance.



Our alliance teams were from New South Wales (AUS), Texas (USA) and Colorado (USA). 807 teams competed in the World Championships across 12 divisions in 2 locations.

It was a great experience and the team competed fantastically this year, and we worked with some amazing international teams, I was very proud to be part of the team and represent it as a robot driver.

Bryce Simmons



Quotes from the pit compere on the first day in Houston and told with a slow Texan drawl.

Hey you, in the red shirt, quit your run'in. Its all fun and games until you fall over and BREAK,,,YOUR,,, TEETH and then Mums not gonna be happy.

Hey. FRC its now 3pm so give me a cheer.

Hey you, with the shoes on, GET,,, ME,,,A,,,DONUT.

Hey, team 7702 is looking for a complete ball shooting system so if anyone has a spare complete ball shoots system go and see Steve at team 7702.

Geoff

FRC - getting to competition: a team effort!



Photos by Jeff R—thankyou!

FIRST LEGO LEAGUE



The RoboRoos East FIRST Lego League team have had an extraordinarily successful

season starting last August!

In the beginning we met every Sunday afternoon, first getting to know each other and how to work together then starting the challenge of designing and building a robot and coming up with a project idea to the theme of 'Animal Allies', researching it and developing our innovative solution.

The Adelaide competition saw us win the Championship Award as the best overall team. It was an incredible achievement to be recognised as the number one team in the whole state, and one we are very proud of!

A trip to the national comp in Sydney in Dec showed us how great the teams are across Australia and how diverse the robots can be. We were lucky enough to win the Robot programming award, and do amazingly well in all other aspects of the competition. This gave us the honour of receiving an invitation to the 2017 World Festival in



Houston, Texas in April.

Wow, everything is bigger in Texas!. 105 of the best teams from across the globe came together to compete graciously for the title of World Champion, and have some serious fun while they were at it.

Our robot was a bit wonky after travelling half way across the world in hand luggage, but was put back together and achieved an even higher score than we had managed at national comp, finishing mid-field.

Our project on clicker training free-range chickens (to encourage them to actually go outside) wowed the judges. Therefore we were one of five teams asked to present our project to the full crowd of teams - and then won an award for second place in the project presentation! The awards ceremony was just like being at the Oscars and it was a special moment for all the team and our mentors to see Australia up there with the best in the world.

We had so much fun at World's with our pit area full to the brim with Aussie flags, blow up kangaroos, balloons and posters. Our photo story line showed the team's exciting journey through



the season and what good friends we had all become. Our Aussie Aussie Aussie chant was picked up by so many teams and I'm sure we made a lasting impression, especially with our matching hats, shirts and jackets.



Well done team! What's next??

The new season will start soon so if you are a student aged 10 - 15 years, or an adult interested in helping mentor one of our teams then please email :

Fiona.Mansfield@roboroops.org.au

No experience required

FLL

Animal Allies proved to be that wild ride you aren't quite expecting - but one you were very glad you got on. Our kids were fabulous across the season - it was a long haul in the end from Regionals to Nationals to the World Festival - and even in the tough bits they stuck it out and landed in Houston ready to make the most of it all. There was no issue spotting the Aussies in Houston and their spirit in the comp, and the fun they brought to the pit area was infectious. Thanks guys for letting me enjoy the ride with you. Michele





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

www.roboroos.org.au

Sponsors—THANKYOU!

BAE SYSTEMS

