2016 Science & Engineering Challenge

The Science & Engineering Challenge is a nationwide outreach program presented by the University of Newcastle in partnership with various community groups and sponsors that aims to inspire students to consider a future career in science and engineering by choosing to study science and mathematics in their senior high school years.

The 2nd Coffs Coast Science & Engineering Challenge was hosted at Woolgoolga High School on Tuesday, 5th April. The initiative to host the Coffs Coast Challenge was spearheaded last year by Phil Dalton, Head Teacher Science at Woolgoolga High School, Woolgoolga Rotary and Lions Club stalwarts, retired engineer, Peter Lacy and Lions member, Michael Hope. These people were again part of the organising committee with Patty Delaney, Chris Edwards, Leslie Casey and Gordon Letts. This year’s event again attracted generous financial and practical support from Woolgoolga Rotary Club, Woolgoolga Lions Club and the University of Newcastle together with financial support from Sullivan-Nicolaides Pathology Services, Engineers Australia, Clarence Consulting, LG Consulting, Coffs Harbour and Coffs Harbour South Rotary clubs and further support from a legion of community volunteers.

Full story and pictures on pages 4 and 5.
Once again we showcased our school last Tuesday by inviting Newcastle University to conduct the Science & Engineering Challenge. Over 240 students from 7 high schools participated; Coffs, South Grafton, Dorrigo, Bishop Druitt College, John Paul College and McAuley College. As the host school it was possible to enter 80 students into the competition including 7Red as a late entry. Have a read through this newsletter – what a fantastic STEM (Science, Technology, Engineering and Mathematics) activity! A big thank you is extended to Newcastle University and local Lions and Rotary Clubs for helping our school organise the event and in particular Peter Lacy, the president of the organising committee. Around 50 local supporters of this event and eight of our staff attended the dinner on the preceding night. Andrew Fraser, our local state member also attended! The key note speaker, Professor Alan Bell, was exceptional. He highlighted the many career options for young people in Agriculture. Many of us do not fully understand the future of agriculture and agribusiness in Australia. It is a real growth industry providing opportunities in both rural Australia and the cities with many jobs being technology based. One fact Alan discussed was that the blueberry industry had the youngest producers so there are many employment opportunities.

Harmony Day was an outstanding success – see articles and photos later in this newsletter.

On ANZAC Day, Monday 25th April, Woolgoolga High School will be leading the march. It would be great if our whole school could come along and march. Full school uniform is essential – be proud of our school. Assembling at 10.30am at Woolgoolga post office, the march will commence at 11.00am.

Our school continues to excel academically. Mr Dalton, Head Teacher Science, is extremely proud of our Year 10 VALID (previously ESSA) results. All Year 10 students completed this assessment and when we compare the same students who completed the test in Year 8, the average scaled score growth for all NSW state schools was 2.8%, for all public and private schools it was 3.1% and for Woolgoolga High it was 5.1%. This amazing result is testament to the work and dedication of our Science faculty and the leadership of our head teacher. Well done!

Have a great holiday and stay safe. School begins for all years on Wednesday, 27th April.

Until next time
Guy Wright
**IMPORTANT COMING EVENTS**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 8</td>
<td>School Cross Country</td>
</tr>
<tr>
<td>April 8</td>
<td>End Term 1</td>
</tr>
<tr>
<td>April 26</td>
<td>Staff Development Day</td>
</tr>
<tr>
<td>April 27</td>
<td>All students return for Term 2</td>
</tr>
<tr>
<td>April 28-29</td>
<td>School Athletics Carnival</td>
</tr>
<tr>
<td>May 10-12</td>
<td>NAPLAN</td>
</tr>
<tr>
<td>May 11</td>
<td>First Aid Training</td>
</tr>
<tr>
<td>May 17</td>
<td>Parent Teacher Meetings</td>
</tr>
<tr>
<td>May 18</td>
<td>Careers Day</td>
</tr>
<tr>
<td>May 20</td>
<td>Year 7 Vaccinations</td>
</tr>
<tr>
<td>May 23</td>
<td>Year 11 Half Yearly exams commence</td>
</tr>
<tr>
<td>May 23</td>
<td>MNC Zone Cross Country</td>
</tr>
<tr>
<td>May 26</td>
<td>Coffs Harbor Careers Expo (Year 10)</td>
</tr>
</tbody>
</table>

**SAVE THE DATE**

**PARENT TEACHER EVENING**

TUESDAY, 17TH MAY 2016

*More details to come*

**Careers Events/ Calendar**

**Term 2**

- **May 6**  
  **UNE Trip** (Year 12 only) (10 students max.)
- **May 11**  
  **Senior First Aid** at WHS $80 (Marine Studies students and seniors)
- **May 13**  
  **Whitecard** at WHS $90 (open to any students)
- **May 18**  
  **WHS Careers Day** at Woolgoolga High (Year 10, seniors and 7 Red)
- **May 26**  
  **Coffs Career Expo** at Race course (All year 10 cost $6)

**June 27 - July 1**  
**Year 10 work experience** (all year 10)

For any permission notes or information please contact Mrs Chivers
Volunteers arrived at the school at 10am Monday to set up and then train to run the activities provided by the University of Newcastle Science and Engineering Challenge team during the afternoon. Monday evening saw high tension at the Challenge dinner as the fiercely competitive table based teams built and tested their Berocca rockets. An excellent evening was had by all with a number of engaging speakers and the table activity/challenge.

For the main Challenge day the 32 member team from WHS was divided into eight work groups. They participated in a range of hands-on engineering challenges that had been carefully designed to promote problem solving abilities in a collaborative way. The Woolgoolga High School team was managed and supported by Mr Elliott, without whose effort their participation would not have been possible.

The activities included: Grasping at Straws, the building of a working hand from string and straws; Stringways, modelling a travel route covering a number of points with the minimum overall distance covered; building a catapult to project a tennis ball both accurately and over a large distance; Hover Frenzy, in which students build, test and compete with a working model hovercraft; Mission to Mars, building an all-terrain vehicle to carry a load over uneven ground; Helter Skelter Shelter, building an earthquake safe building and the bridge building which provided the climax of the day with the testing of the bridges to

They competed against school teams from six other schools in the Coffs Harbour and Grafton regions by gaining points for each challenge and were ranked a creditable fourth overall at the end of point scoring. On the day we were also able to supplement a number of other school teams allowing a total of approximately eighty of our students to participate in the event. 7Red students competed valiantly against the mostly Year 10 students with creditable results in the hovercraft and a range of other activities.

The outstanding success of this year’s event, as evidenced by the enthusiastic response of all participants, including the volunteers without whom we would be unable to run the event, ensures that this event will continue as a regular fixture on our school’s calendar and foster a tradition of interest and enthusiasm in the study of Science and Mathematics in the senior high school. Sincere thanks go out to all involved.
Science & Engineering Challenge
Communicating with Year 11 Physics

During their study of The World Communicates topic on waves and telecommunications, Year 11 Physics were fortunate to have a visit from Aaron and Jeremy from Vertel. Jeremy finished his HSC at Woolgoolga High School last year and is already employed in this innovative field.

The students learnt about the electromagnetic spectrum, interference patterns, point to point communications, dangers of working at heights, antennas, microwave dishes and daily routines as a telecommunications engineer.

The information and experience was insightful for the Physics class who may consider a career in telecommunications. Seeing the equipment used out in the field and hearing about real-life examples was a valuable experience for the physics class.

Thank you to Aaron and Jeremy from Vertel for sharing their time and expertise.
Below: We have had a few invasions during the term from an unwanted python which the students helped relocate to a more suitable environment in a nearby forest.

Above: The new arrival of young rabbits have just opened their eyes and the students are able to handle them. They are for sale at a cost of $15 each. Please contact the school office if you would like to purchase

We are all looking forward to the young lambs arriving next term.
Christine Duver
Agricultural Teacher
Year 7 Sport – AFL

North Coast AFL ran clinics with Year 7 sport groups during sport sessions in Term 1. Students developed their skills, knowledge of the game and all sessions were thoroughly enjoyed.

Thanks Matt, Alana and Cory for running a great couple of clinics of AFL with our Year 7 students. Any students interested in playing AFL should contact Karl Wisdom, Northern Beaches Blues on 0477 312 505.

I learnt how to play the game and what a mark is. I like how it’s a team sport.
Jasmyn 7R

I enjoyed kicking a goal and 2 points
Manish 7O

I learnt how to kick properly, the skills of the game and I liked playing the game.
Cory 7R

I enjoyed the game because everyone was involved and having fun.
Damon 7R

I liked being better than the boys at something!!
Lucy 7R
In December 2015 the students in Mr Bordignon’s Year 9 Information and Software Technology and Industrial Technology Multimedia classes, participated in the world wide initiative “Hour of Code”. The Hour of Code is a global movement reaching tens of millions of students in 180+ countries. The Hour of Code takes place each year during Computer Science Education Week. The goal of the Hour of Code is not to teach anybody to become an expert computer scientist in one hour. One hour is only enough to learn that computer science is fun and creative, that it is accessible at all ages, for all students, regardless of background. Each participant receives a Certificate of Completion for their efforts.

_Pictured below:_ Woolgoolga High School participants in the Hour of Code proudly display their certificates

Congratulations to Addisen Mallett (Year 10) who has been selected in the North Coast Regional Open Boys Soccer team. Addisen will complete at the NSW CHS State Championships at Tomaree (near Newcastle) next term.

*Good Luck!*
Year 8 Police Talks

Year 8 Police Talks held in the Library on 17\textsuperscript{th} March 2016 presented by our School Police Liaison Officer Senior Constable Snow and Aboriginal Liaison Officer Mr Michael Gibbs. Topics included:

* Mandatory Attendance Requirements
* Truancy
* Drugs including smoking, alcohol, cannabis, Ice, MDMA, LSD
* Sexting
* Responsible Use of Social Media
* Young Offenders Act
* Making responsible choices
* Consequences of having Police Record

AMBULANCE SCHOOL COVER

EXCURSIONS

We have been advised that the Ambulance Service of NSW has reciprocal health care agreements with all Australian states except Queensland and South Australia.

This means that, even though Woolgoolga High has Ambulance School Cover for students who have an accident or fall ill whilst at school or at an organised school activity, they are not covered while on school excursions to Queensland and South Australia.

Only students whose parent/guardians hold a Commonwealth Government Health Care Card or have private health insurance (including ambulance-only cover) are possibly covered when on a school excursion to Queensland or South Australia. It is strongly recommended that parents/guardians who do have cover with a private health fund, check their family’s eligibility with regards to travel to all the states.

Jo Hine and Larry Hancock attended the Gumbaynggirr Dictionary launch in Nambucca on Friday 25\textsuperscript{th} March.
Harmony Day was again celebrated at Woolgoolga High on 21st March in a spirit of friendship and cultural inclusion. It is with great pride that we recognise our school community for the diversity of cultures we share. We, in fact, have 21 different languages spoken or recognised as a first language in the homes of our students. This truly reflects this year’s theme that “Diversity Is Our Strength”.

This year, the Inaugural Harmony Day Awards were introduced to recognise those students who demonstrate the values of acceptance and cultural inclusion. They were acknowledged for their everyday actions that promote a sense of social cohesion within the school community. Those students were Awal Maker, Kaela Twiss, Elizabeth Kelman, Sherydan Simpson, Pavanveer Mullee, Byron Hartin-Singh, Nirribi Williams, Harlin Sidhu.

The school was also treated to an uplifting performance of Irish tunes from the talented guitar of Mr Berglund and the tin whistle of Mr Feeney recognising the Irish heritage of many of our community.

To recognise the spirit of harmony at our school, an assembly was held that featured a student and teacher presentation of their ideas of what Harmony Day means to them. This was a fun and honest collection of thoughts and understandings that was produced in the real spirit of harmony!

Well done to the “Henna Girls” who are always willing and excited to create intricate henna designs sharing their skill and culture for interested girls AND boys at Breaks 1 and 2.
Once again the International Food Fare was a lunch time treat for the whole school. Thank you to the Hospitality, CAFS, Year 10 Food Technology students as well as Mrs Sutherland and Mrs Fluechter for their amazing preparation and organisation of the lunch. A special thank you is extended to Patnaree Rojviboonchai, Dom Manuang, Simranjit Kaur, Simranpreet Kaur, Kirandeep Kaur and their families for their contribution of authentic cultural cuisine.
Once again sport was enjoyed by all staff and students in friendly competition during the afternoon. The day was a true celebration of DIVERSITY creating a true sense that “EVERYONE BELONGS”.
On Thursday, 24th March ten girls and twelve boys from Woolgoolga High School participated in the opens touch football knockout competition, competing against schools from the Mid North Coast region. The girls’ team was the first to play, beating Dorrigo High School 3-0. Our girls’ team had little touch football experience but they all put in a great effort to come away with the first win. Next up the boys played Coffs Harbour High School in their first round and came away with a 7-1 win.

For round 2 the girls took the field to play Coffs Harbour High School. The girls tried their best but unfortunately lost 2-0, knocking them out of the competition. The boys played Dorrigo for their second game. Both teams were really strong and the match was very close but unfortunately the boys lost 4-3 ending their competition too.

Congratulations to Jade Egar, Tanisha Wallace and Edward Vincent and Izack Smidt who were both selected to play for the Opens Mid North Coast team in May.

Kayla McIntosh & Kris Oates

Thank you to all of the students who participated in the opens touch football knockout. It was a great day and wonderful to see you all supporting each other and cheering on from the sideline.
### 2016 SPORTS CALENDAR

<table>
<thead>
<tr>
<th>SPORT</th>
<th>DATE</th>
<th>CARNIVAL</th>
<th>VENUE</th>
<th>TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CROSS COUNTRY</td>
<td>Fri 8 April</td>
<td>School Cross Country</td>
<td>Woolgoolga</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Mon 23 May</td>
<td>MNC Zone Cross Country</td>
<td>Grafton</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Fri 17 June</td>
<td>NC Regional Cross Country</td>
<td>Murwillumbah</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Fri 22 July</td>
<td>NSW State Cross Country</td>
<td>Eastern Creek</td>
<td>3</td>
</tr>
<tr>
<td>ATHLETICS</td>
<td>Thurs 28 April</td>
<td>School Athletics Carnival</td>
<td>Woolgoolga Sports Ground</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Fri 29 April</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tue 14 June</td>
<td>MNC Zone Athletics Carnival</td>
<td>Coffs Harbour International Stadium</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Thur 4 Aug</td>
<td>NC Regional Athletics Carnival</td>
<td>Lismore</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Wed 7 Sep to Fri 9 Sep</td>
<td>CHS State Athletics Carnival</td>
<td>Homebush</td>
<td>3</td>
</tr>
</tbody>
</table>

**PLEASE NOTE:** DATES AND VENUES ARE CORRECT AT TIME OF PRINTING BUT ARE SUBJECT TO CHANGE. PLEASE CHECK CLOSER TO EVENT.

Along with the Woolgoolga High School relay teams highlighted in the last newsletter, the following students have competed in individual events. What an outstanding achievement!

<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jasmyn Hoppe (Year 7)</td>
<td>12 years</td>
<td>Girls 100m Butterfly</td>
</tr>
<tr>
<td>Emerson Bhatti (Year 8)</td>
<td>14 years</td>
<td>Boys 50m Freestyle, 100m Freestyle, 100m Breaststroke, 200m IM</td>
</tr>
<tr>
<td>Brynd Storrie (Year 8)</td>
<td>14 years</td>
<td>Boys 100m Backstroke</td>
</tr>
<tr>
<td>Liam Bartlett (Year 9)</td>
<td>15 years</td>
<td>Boys 50m Freestyle, 100m Freestyle</td>
</tr>
<tr>
<td>Sam Burke (Year 10)</td>
<td>16 years</td>
<td>Boys 100m Freestyle, 200m Freestyle, 100m Breaststroke, 100m Backstroke, 200m IM</td>
</tr>
<tr>
<td>Andrew Collins (Year 10)</td>
<td>16 years</td>
<td>Boys 100m Backstroke</td>
</tr>
<tr>
<td>Taylar Briley (Year 10)</td>
<td>16 – 19 years</td>
<td>Girls MC 50m Freestyle, 100m Freestyle, 50m Breaststroke, 100m Breaststroke, 50m Backstroke, 50m Butterfly, 200m IM</td>
</tr>
</tbody>
</table>
Host families sought for 16 year old Rotary student from Austria, Anneliese for a 3 month period from September 2016. Rotary provides $200.00 a month towards your costs and the student receives pocket money from Rotary.

Anneliese will be attending Woolgoolga High School for one year. Anneliese comes from Gratz and lives close to the city in an apartment with her parents and two older brothers. Her favourite hobby is dance and she would love to live in a seaside location as part of her 12 months of International Youth Exchange. Host families do not have to be Rotarians. Support and back up provided. Enquiries: Patty Delaney 66 542185; 0467072905
If taking holidays or long term sick leave, greater than 5 days, please apply for an exemption form from the Front Office. These days are not included as absences if appropriate paper work is completed.
Woolgoolga High School Silver Awards
are generously supported by:

**Years 7, 8, 9 receive vouchers from**

McDonalds Restaurants
Pacific Highway Coffs Harbour

**Years 10, 11, 12 receive vouchers from**

Riptide Pizzeria
Fawcett Street Woolgoolga
*Phone: 6654 8989*

Woolgoolga Pizza Place
Beach Street Woolgoolga
*Phone: 6654 2744*
A secure Westpac banking facility has now been added to the Woolgoolga High School website to allow parents/carers to make online Visa or Mastercard credit or debit card payments for things like voluntary school contributions, excursions, sporting activities or sales to students.

Look for the $ Make a Payment button next to Contact Us at the top of our homepage.

For those experienced in paying online, the process will be familiar. Detailed instructions are available by opening the Parent Online Payment Instructions on the Information tab on our website.

We hope that you will find this payment option convenient. Payments can still be made at the Woolgoolga High School Office by cash, cheque or EFTPOS before school and during break 1.

http://www.woolgoolga-h.schools.nsw.edu.au/

Canteen—Eat Fresh

http://www.woolgoolga-h.schools.nsw.edu.au/parent-information

See menu with price list on the school’s website

Volunteers needed to serve in only 1 hour increments:

8.30am - 9.30am
11.00am - 12.00 noon
1.00pm - 2.00pm

If you can help please ring the school on 66541500 or follow the link on the school’s website to complete the expression of interest.