Focus on Science

Year 11 Biology and Senior Science students travelled to Sydney Olympic Park in August to study the local mangrove environment and ecosystem at the Education Centre. Students were involved in estimating population trends using field study equipment, quadrats and a transect. Different equipment was available for students to use to measure a number of the non-living factors within the environment and students had to link these factors to the distribution and abundance of the organisms in the environment. Students described the excursion as ‘lots of fun’ and were interested in learning about an environment that is so different to Bathurst. The guides were very friendly and made sure that although there was a lot of information to learn it was still fun and enjoyable. It was a great opportunity for students to apply all the knowledge that they had learnt in class within a real scenario and taught them skills that they can apply to all ecosystems.
Year 11 Chemistry students

"As part of the Preliminary Chemistry water unit, Year 11 Chemistry students conducted a series of first hand investigations into the surface tension of water. They compared the surface tension of water to a number of other liquids and investigated the effect lowering the surface tension of water had on their ability to spread the surface of water".

Year 11 Biology and Science students on their recent trip to Sydney Olympic Park.
HSC Physics Excursion to Mt Piper

As part of the HSC Physics course, students learn about the physics behind power generation and the operation of electric motors. The young physicists are also asked to make an electric motor as part of their third assessment task.

Last term, to extend their classroom experience, Year 12 Physics went on an excursion to Mt Piper Power Station to see how physics is applied on the LARGE scale.

Aiden Stelling
Science Teacher

Above - An electric motor created by Physics student Emily-Jane Woodhead

Above - Kyne Hanlon, Scott Inwood, Zachary Lew, Brandon Schwass, Emily-Jane Woodhead and Josh Stapley standing on a platform 5 stories up in front of the cooling tower. While recycling 97% of the water used in the power plant, it still manages to lose the same amount as Canberra uses daily as steam!

Above and below - Some serious hardware - The turbine pictured is capable of producing a staggering 700 Mega Watts of power!
Biotechnology Awards

During last term, Year 10 Science and English classes worked on completing a cross curricular project – the Biotechnology Project. The students had to use their knowledge about Biotechnology learnt in Science to create a genetically modified organism and then use the knowledge and skills learnt in English to design an advertising campaign for the GMO.

The project culminated in the Biotechnology Expo where the students designed a stall to market their product. The displays were fantastic. Visitors included some people from the Department of Education Regional Office, teachers from other schools, parents and Year 7 & 9 students. Visitors voted for the stall that they thought was the best in various categories.
Prizes were awarded to the winners of each category.

The product voted as Best for the Environment was a genetically modified sea turtle that could change its colour to blend with the environment thereby reducing the number of sea turtles that are preyed upon.
The Sea Knot was the creation of Abigail Scarborough and Brendon MacIntyre.

The product that was voted Best for Human Health was a vegetable that had a gene from the coco bean added to it to make it chocolate flavoured.
The Choco Veg was the creation of Wyatt Nicholson and Aiden Charters.

The winner of the best for Agriculture and Forestry was a genetically modified wheat plant that had faster growth, increased nutritional value and that raised the fertility of the soil. The Salu Wheat was the invention of Thomas Scott Palmer, Isaiah Radburn and Jayden Burrow.
The remaining four categories were won by two groups;

Giant Pandas are only fertile for 3 days each year so breeding them is extremely difficult. Amy Cole, Sophie Ryan and Boadicea Nichols inserted a gene from a dairy cow into the panda to allow it to be fertile every 21 days. The Prolific Panda was voted the best presented stall and the best scientifically explained GMO.

Biotech Pandas

One GMO was outstanding in all areas. It involved inserting the genes responsible for allowing the cactus to photosynthesise in very hot and dry conditions into corn so that the corn could be grown much more widely and successfully in African countries. Not only did Cactacorn win the Most Commercially Viable and Overall Best Idea category, the written work submitted for marking to both the English and Science faculties earned Cactacorn’s developers, Steven Chapman, Keiren Lindsay and Emma Warburton a perfect 100%.

Well done Steven, Keiran and Emma!
News from the Principal

2015—2017 Strategic Plan

We are heavily into the development of this plan. It will drive school spending and school direction over the next three years. Consultation with staff has taken place over the last month or so. A new phase of consultation is starting with parents and students. This will commence with next week’s P&C meeting at which the data analysis will be presented and the identified areas discussed. This same analysis has already been presented to the student senior leadership team and the SRC will see it shortly.

I will make this analysis available through the school’s Parent Portal and will invite parents to comment on it by email. The information will also be presented to our Aboriginal parent community.

The major strategic directions will be published after this period of consultation. This should be at the start of the 2015 school year. At that stage the community will be able to see how our funding sources are used to support our strategic directions.

Celebrations

This is a time of great celebration. Student leadership, student excellence in learning, sport and cultural pursuits, end of year 10 celebrations, recognising student performance through commendation ceremonies and various celebrations of the performing arts are all part of this time of the year. I am always left with a strong sense of the breadth and excellence of the curriculum at Bathurst High. I am also left with a strong sense of the excellence of our students and teachers in so many areas.

So, this is a blanket congratulations from me in addition to individual congratulations that I can give at these events.

Student Citizenship

I will let you read Mrs Dunshea’s report to see an example of exceptional citizenship by Shannon Furbank, one of our Year 10 students. I would probably never have known about this if it hadn’t been written up in the Western Advocate, as I know Shannon just thought it was something that you did without any thought of recognition. Her actions were exceptional, but I know that there are little acts of citizenship being carried out by Bathurst High students in all sorts of circumstances. Too often, indiscretions by a small number become the subject of barbeque discussions and the wonderful contribution that the overwhelming majority of our students make to the life of our community is ignored.

So, in the spirit of recognition, can I thank the nearly one thousand Bathurst High students for your positive contributions. I know they are happening all the time and you show yourselves to be Safe Respectful Learners in all sorts of different circumstances.

Geoff Hastings
Principal
College Principal’s Report

November 2014

ALARM!

Earlier this term a large team comprising executive and teaching staff from both campuses participated in a professional learning activity at Kandos HS. The focus of this activity was ALARM (A Learning And Response Matrix). This is an approach to teaching and learning that supports students, particularly in Years 11 and 12, in understanding how to organise their learning and construct their responses so that they can demonstrate the higher order thinking that is necessary to achieve at the highest levels in the HSC.

The response from all staff who attended this training was very positive, and the College is in the process of planning how to best implement this approach to learning across both campuses. Whilst each campus will identify its own implementation strategy and timeline, the Head Teachers Senior Studies, Mrs Murphy (KHC) and Mrs Chapman (BHC) will be responsible for ensuring a coordinated approach across the college. This is an exciting initiative and will be a key focus for 2015 and beyond.

School Within a School

SWAS is the award-winning, BOSTES endorsed alternative program for selected Year 10 students. The SWAS team is finalising the program for 2015 and parents and students can expect to hear soon if they have been invited to participate in this program which involves key partnerships with some of our important community partners, including TAFE Western, Headspace and VERTO. Inquiries regarding SWAS can be directed to the Project Officer, Mr Behan (KHC), or the Head Teachers Junior Studies, Ms Townend (KHC) or Ms Burt (BHC).

High Achievers’ Reception

This annual event recognises those students in Years 10, 11 and 12 who have achieved exceptional academic results. We are currently reviewing student results against the eligibility criteria and will finalise the recipients as soon as the HSC results are released. Celebrations will be held on Tuesday, 3rd February 2015 and will be in the form of a Mayoral Function at the Motor Museum at Mount Panorama. Additional details will be included in the invitations, which will be sent to the recipients this year.

Craig Petersen
College Principal
A Message from the Deputy Principal Middle School

Year 9 students have just returned from their annual camp at Milson Island on the Hawkesbury River. Students were engaged in activities including archery, giant swing, high ropes, kayaking, pool games and vertical challenge. Night time activities included a ghost tour, a bonfire and team building activities. All the students enjoyed themselves and the teachers had fun too. A special thank you to Beatrice Merriman and Aiden Stelling, the Student Advisers, for their organization of the camp and to Cassie Burt and Nathan Kenny who ably supported them at the camp.

Year 8 students are attending a rewards day at Wet ‘N Wild this week. Those students selected to go have all showed commitment to their schoolwork throughout the year. I am sure they will enjoy the fun that this day has to offer them.

Year 7 students are also on an excursion this week to the Powerhouse Museum and the Sydney Aquarium as part of their Integrated Studies course. They have been studying a unit on Inventions and will see first-hand some well-known inventions at the museum.

It is wonderful that we have so many opportunities to enhance the learning for our students.

Commendation Assemblies will occur for students in Years 7, 8 and 9 on Friday 12th December. I encourage all parents to attend these assemblies as we celebrate the achievements of our students. I have been reading reports and it is pleasing to read that the majority of students have been engaged and committed to their class work throughout the semester.

I will be changing Deputy Principal roles in 2015 and will be supporting students in Years 10, 11 and 12. Stephanie Scott will be the Deputy Principal of the Middle School in 2015. Stephanie has been our Head Teacher Welfare and is very excited about the opportunity to take on this position. I know she will do an outstanding job!

Left- Felicity Hickey, Year 8, competed at the martial arts World Cup Championships, held in Sydney last month. Seventeen countries were represented at the tournament with 900 competitors. Felicity won 2nd place in her division. Congratulations Felicity!

Jenny Stirling
Deputy Principal
Middle School
Year 10 End of Junior School Celebration Dinner  Please note the date is the 10th December

Yr 10 Commendation Ceremony 11th December at 9.30. All students are to attend.

We understand there may be a clash of this ceremony and work placement. Please let Mr Grace know so he is aware of who will not be present. All parents and family are welcome to the Commendation Ceremony. Please come and take this opportunity to recognize the great work your child has undertaken this year. Mr Grace has given all Year 10 students a letter regarding all the Year 10 arrangements for the end of the year. This letter is also on our website.

Thank you to all who are ready for work experience. Students who are not participating in Work Experience are to attend school and attend their regular classes.

We are particularly keen for all students commencing Yr 11 in 2015 to have their senior polo shirt to wear from the start of Term 1 as this indicates to staff and community that they are seniors in our school and have certain privileges as a result. The Uniform Shop hours are in this newsletter.

It is a pleasure to note the great citizenship of Shannon Furbank in Year 10, who looked after a group of primary school students on the bus after they missed their stop. Shannon showed great initiative when she contacted the children’s schools to tell them the children would be late. Well done Shannon! It is great to have feedback from community members regarding the courteous and respectful behavior of our students.

Year 11 have almost completed the first term of the HSC course. Congratulations! All students are to attend every day, every period to the last day of school on the 17th Dec.

The Year 11 Commendation Ceremony is on Friday 12th at 9.15am. All parents and family members are welcome and we hope to see you in the gym for this ceremony.

Well done to Claire Woolmington who has completed the 2014 National Art School Board endorsed Visual Arts extension course: HSC Intensive Studio Practice Course. Claire’s results in ceramics were absolutely outstanding, having received 47 out of 50.

Her art work was created out of recycled clay and demonstrated her experimental use of oxides and glazes with the theme of the connection between the natural and manmade environments. The work had to be produced in the first 4 days of the two week school held at Darlinghurst.

Great work Claire!
Cricket Success!

On Thursday the 13th of November our cricket team journeyed to Mudgee to play Mudgee High at Victoria Park in the semi-final of the Alan Davidson Shield. We lost the toss and Mudgee elected to bat. They began the game in fine fashion with 1 for 45 after 10 overs and were looking dangerous. Aiden McBurney (4/18) and Ryan Newell (3/12) came into the attack, placing a huge hole in the Mudgee batting line up, leaving them 8/96. Mudgee were then bowled all out for 135 after their final partnership rallied. Our reply with our run chase began strongly as one of our openers, Scott Matheson scored 50 runs. Ryan Peacock’s quick-fire 33 runs, was aided by Kieran Lindsay (11 runs) and Tyler Horton (23 runs) and we were able to reach the winning total of 135 within 23 overs.

On the day our fielding and team performance was superb. There were some excellent catches taken on the day but none better than Nic Broes’ diving effort to dismiss Mudgee’s first drop batsmen off the bowling of Aiden McBurney. This proved to be a real turning point in the match, as Mudgee had made a strong start until that point.

A big thanks to Greg Daymond for travelling to Mudgee to score the match. We are now looking forward to playing in the Western Region final against Dubbo South Campus.

In further cricket news we have recently had six students selected to represent the Western Region in Boys and Girls cricket at the State Carnival next year. Congratulations to Annabel Meadley, Emily Smith, Alora Dickson, Tyler Horton, Ryan Peacock and Kieran Lindsay. To have three students from Bathurst High selected in both of these teams is an outstanding result.

By Ricky Daymond (Team Member and School Captain)
**Cricket Success cont.....**

Showing their batting style are above– Nic Broes, Top Right– Tyler Horton, below left–Ryan Peacock and below Scott Matheson.

Left- Aiden McBurney (bowling)
On Thursday November 13th, we were lucky enough to have guest speakers, Kayla and Melissa from Luxe Hair and Body come and speak to us. Kayla and Melissa are sisters and owners of Luxe Hair and Body; Kayla is a hairdresser and Melissa is a beauty therapist. The girls spoke to us about lots of different things such as:

- How to care for our hair and skin,
- How to apply makeup (they gave us a demonstration),
- How we should present when going for a job interview,
- How to work our way into the industry we want to work in.

Kayla and Melissa were also kind enough to give us some free samples of moisturisers which we appreciated very much as we realised instantly how great they made our skin feel and look. Tamkea and Yollanda also sang a few songs and played guitar for Melissa and Kayla. Overall it was an informative and fun afternoon.
Disability Provisions

Is your child eligible for Disability Provisions for the 2015 Higher School Certificate Examinations?

Does your child have a diagnosed disability, a health or physical concern that may impact on their ability to undertake their HSC exams to the best of their ability? Your child may be eligible for adjustments (provisions) to assist them. The Board of Studies, Teaching and Educational Standards has an application process which is coordinated by Melisa Crossingham our Learning and Support teacher. She is very happy to discuss this with you. Please contact Melissa by calling the front office on 02 63313755

Library News

BATHURST HIGH’S EBOOK LENDING PLATFORM IS HERE!
Go to: http://bhc.wheelers.co/ to register for borrowing.
## Bathurst High School

**Uniform Shop Special Opening Hours**

### 2014 - 2015

#### DECEMBER 2014

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<thead>
<tr>
<th>Day</th>
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<th>Time</th>
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<tr>
<td>TUESDAY</td>
<td>2nd. December</td>
<td>8.30am – 11.30am</td>
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<td>WEDNESDAY</td>
<td>3rd. December</td>
<td>8.00am – 4.00pm</td>
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<td>4th. December</td>
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<td>TUESDAY</td>
<td>9th. December</td>
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<td>11th. December</td>
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<tr>
<td>TUESDAY</td>
<td>16th. December</td>
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#### JANUARY 2015

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<tr>
<td>THURSDAY</td>
<td>22. Jan</td>
<td>1.00pm – 4.00pm</td>
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<tr>
<td>FRIDAY</td>
<td>23. Jan</td>
<td>9.00am – 1.00pm</td>
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<tr>
<td>TUESDAY</td>
<td>27. Jan (Staff Development Day)</td>
<td>8.30am – 11.30am</td>
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<tr>
<td>WEDNESDAY</td>
<td>28. Jan (Yr 7, 11 &amp; 12 Return)</td>
<td>8.30am – 1.00pm</td>
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<tr>
<td>THURSDAY</td>
<td>29. Jan (Yr 8, 9 &amp; 10 Return)</td>
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**THEN EVERY TUESDAY**

**THURSDAY**

- **8.30am – 11.30am**
- **1.00pm – 4.00pm**
### Coming Events

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<td>Presentation Night 6.30pm for a 7pm sharp start.</td>
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<td>P &amp; C Meeting 7.30pm</td>
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<td>Year 7 2015 Orientation Day</td>
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<td>10th December 2014</td>
<td>End of Junior School Dinner Year 10</td>
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<tr>
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<td>Year 10 Commendation Assembly 9.30am</td>
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<td>Commendation Assemblies Yrs 7, 8, 9 and 11.</td>
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<td>Yr 12 HSC Results Brunch 8.30am</td>
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### 2015

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<tr>
<td>27th January 2015</td>
<td>Staff Development Day</td>
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<tr>
<td>28th January 2015</td>
<td>Year 7 students, New Enrolments and Peer Support Team students return</td>
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<tr>
<td>29th January 2015</td>
<td>Whole School returns</td>
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<tr>
<td>11th February 2015</td>
<td>Swimming Carnival</td>
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### P & C

Bathurst High Campus P&C meets the 1st Wednesday of each month.
Our next meeting will be on Wednesday 3rd December in the staffroom at 7.30pm.
Hope to see you there.

### Free Maths tutorials

Reminder that Free Maths tutorials are running at Bathurst High every week. Session starts in the Information Resource Centre (Library) at 2.50pm and continues until 5.00pm.
Students may attend for as long as, and as often as they need.

**Wendy Hastings**

BSc, GDE, M Ed(Hons), PhD
Adjunct Senior Lecturer
Charles Sturt University
BATHURST.
www.csu.edu.au/division/landt/efp/

Denison College of Secondary Education—Bathurst High Campus—www.bathurst-h.schools.nsw.edu.au
if you want to have fun, help your community and gain new skills, go to www.pcycbluestar.org

for more information contact pcyc state office 02 9625 9111
Community Notices cont.....


WHAT'S INVOLVED

BLUESTAR CITIZENSHIP

Introductory program including 20 hours volunteering:
- Cert I Volunteering
- Basic First Aid Certificate
- Bushwalking and Camping

BLUESTAR LEADERSHIP

Leadership development program including delivery of an activity project at local PCYC:
- Certificate II Community Recreation
- 30 hours Volunteering at PCYC
- Leadership training

YOUTH REPRESENTATIVES

Individual mentoring for development opportunities:
- Youth Rep on PCYC Board
- International One Young World Summit

BLUESTAR is a Youth Development and Leadership program created by PCYC to assist in creating Young Leaders for Tomorrow in our local communities. The program gives practical, real life skills that young people can apply to work, and family, helping them on their way to becoming great community leaders.

BLUESTAR CITIZENSHIP PROGRAM

The BlueStar Citizenship program is the first step in the Leadership Journey for young people at PCYC.

The program introduces them to PCYC and gives them both formal and informal training opportunities. In addition to this they get the chance to meet young people from all over NSW, and form friendships to last well into the future.

WHAT'S INCLUDED:

- Two camps at a Sport & Recreation style facility.
- Motivational workshops and experiential team building exercises.
- 20 hours of volunteering at their local PCYC
- Opportunity to complete the Duke of Edinburgh Award—Bronze level.
- Facilitated learning sessions on Citizenship
Community Notices cont.....

Make Your Debut

at

Bathurst Bicentenary Highland Society

Debutante Ball

Saturday 16th May 2015
at Bathurst Panthers

For Further enquiries contact
Elizabeth Evans on 6334 4970 or
Marion Pearce at pearcemr@lisp.com.au

ALL PROCEEDS GO TO LOCAL CHARITY
Volunteer Host Families Needed
Overseas students will be arriving in February 2015 and require loving host families, just like yours! Students are arriving from countries including Germany, Switzerland, Austria, Costa Rica, and many more to stay for 5 to 11 months.

Through hosting you will gain friendships that can last a lifetime. There is no typical “AFS family”, so whether you have cattle, a poodle, six children or none, you have the perfect family!

For more information please call Lian Drinan on (02) 9215 0077 or visit www.afs.org.au/host to make an inquiry today!

Bathurst Buslines
29 Lyal St
Bathurst NSW 2795
Ph– 6331 2744

Please make sure Bathurst High School has your correct address and if it has changed please notify Bathurst Bus lines so that when the bulk pass print out is done, the pass will find your child. The passes will be printed and posted in the second week of January 2015. If your child is entering Year 7 2015, you will be required to complete a new blue application form.