Hi all and welcome to our Term 3 newsletter which showcases the fantastic work of the Illawarra Sports High Science Faculty. I am very proud of the work our Science teachers do every day to engage our students in their subject and (as you will read) its very pleasing to see how many of our science students go on to be highly successful in further study and work in the science field after completing their HSC.

Term 3 has brought more educational opportunities for our students including:

- Year 11 student Kasey Fraser participating in the NSW Department of Education “Secretary for a day” program during Week 2
- 30 randomly selected Year 10 students participating in the PISA international study on education during Week 3
- Our Public Speaking team hosting the first Berkeley Community of Schools Public Speaking Competition during Week 4
- Many students participating in our annual talent show “Express Yourself” during Week 5
- Our TSP soccer students having a friendly game against Narrabeen Sports High and TSP surfers participating in a “specialised Expression” coaching session at the school during Week 6
- A great win for our Under 14s and Open Rugby League teams against Bass Hill High in Week 6
- Official opening of the Berkeley Arts Project, over 20 students worked on this project in conjunction with Wollongong City Council to design and create boat shaped seats in the Berkeley Pedestrian mall.

What a wonderful performance we experienced last Friday at the WIN Entertainment Centre as our students showed off their dancing and musical talents performing in the 2015 regional Southern Stars concert. Look out for more detailed photos on our Facebook page, school app and website.

I hope you enjoy reading this newsletter.

Raechel McCarthy (Principal)
Congratulations to the following students
with 98% School Attendance throughout 2015

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Should you have any questions regarding your child’s attendance, please phone to speak with the Year Advisor or Mr Grant Colliss, Head Teacher Attendance on 4271 1099.
Science Faculty 2015

Science is an innovative, creative and a highly practical subject. Along with our lessons in scientific theory, students also spend a large part of their time in Science, designing and performing experiments in our laboratories. The Science curriculum also requires learning through field trips which form an essential part of both junior and senior Science courses. Our students also participate in Science competitions and University programs that enrich their knowledge.

This year, our students have enjoyed working in the classroom and have had opportunities to partake in many fieldtrips including, excursions to the rock platform at Austinmer Beach, Killalea State Park, the Museum of Human Disease, Ulladulla Harbour, Karloo Pool, Minnamurra Rainforest and our highly successful overseas Earth and Environmental Science excursion to New Zealand. Further activities that have occurred this term include: the Australian National Chemistry Quiz, which was held in late July for participating students, the Year 11 Biology and Chemistry Enrichment days at UOW in August, the Year 9 TAPS class attended ANSTO and the Year 12 Chemistry students completed a workshop on corrosion, conservation and restoration techniques at the Australian National Maritime Museum, also in August touring the vessels including the Onslow submarine. In term four year 8 and 10 students will be entering their Student Research Projects into the Science Fair Coal Competition held at UOW in November and an outstanding Year 11 Science student will become the 2015 recipient of the prestigious Victor Chang Award.

The Science faculty is keen to promote and nurture “the love of Science” not only within ISHS but also within our community. We have again in 2015 invited the Year 5 students from our local community of schools into our laboratories, successfully hosting the Year 5 Science Challenge. This allows students access to specialist facilities and an extension of the stage 3 Science syllabus. I was particularly delighted by the Year 5 students’ enthusiasm, excitement and their active participation in the challenge. I was also very proud of the ISHS students who worked with the year 5 group and the senior students who took on a caring and mentoring role during recess and lunch breaks.

We are very proud of our students’ achievements and celebrate the success of our students past and present. Highlights of our current students’ work and the successes of our Alumni students who have pursued careers in Science are featured in this newsletter and are also on display in the school foyer.

Margaret Thomas
5x5 Science Challenge

During term 2, year 5 students from Berkeley PS, Berkeley West PS and Farmborough Rd PS attended a 5 week Science workshop hosted by Mr Murada and the Science faculty. The focus of the program was on volcanoes and the effect they have on the Earth. Students were given the opportunity to study volcanoes by conducting experiments involving chemical reactions, researching in the school computer labs, making films with iPads and collaborating as a team in the new CLOWD room. The highlight for most students was the opportunity to build model volcanoes and then demonstrate an eruption using the reactions they had learnt. Overall, it was an enriching and rewarding experience for all involved.

Mr James Murada
In April, a lucky group of year 12 Earth & Environmental Students had the opportunity to study Geology up close on an eight day trip to New Zealand. The 8 students, accompanied by Mr Murada and Mrs McCarthy, flew to Christchurch and visited both The International Antarctic Centre and The Quake City Museum. From there, the journey became beautifully scenic as the group drove a large loop around the South Island; visiting both Fox and Franz Josef Glaciers, Queenstown, Milford Sound and Mt Cook. The group broadened their knowledge on plate tectonics and environmental processes and experienced first-hand the pleasures of travelling.
On Thursday, 26th March the Year 7 & 8 Elouera Science classes went to Austinmer beach to study the geology and environment around the beach and rock platforms. They were accompanied by Mrs Thomas, Mr Murada, Mr Hutt, Miss Cividin, Mrs Townsend and Mrs White. As they walked along the beach they explored the rock pools and the sandstone layers of the cliff faces. The park at Austinmer beach was lots of fun and they bought hot chips which were shared back at school.

Highlights from the excursion:
- **Caleb Allen** - The hot chips and chasing seagulls.
- **Liam Ross** - The hot chips and the park.
- **Harmony Avery** - The seashells, drawing in the sand, the sea and the park.
- **Sam Hampton-Piggott** - The water and the park.
- **Blade Naylor-Hosa** - Looking for certain rocks and crabs.
- **Kane Scott** - Playing with the crabs and eating the hot chips.
Year 9 Waves

Below are the photos taken by two excited Year 9 students whilst studying the topic of Waves in Mr Kennedy’s Science class. The students had been studying the Refraction (bending) of light. When the students shone the light rays through the glass prism at the correct angles, the white light turned into a “magic” rainbow.

Problem based Learning

Year 10 were given six pieces of A4 paper and were assigned with a task to build a bridge that was 30cm wide with the capacity to hold up a 1kg weight. Students used the paper to fold triangular shapes and origami folds in order to strengthen the bridge.

Killelea State Park Ecology Excursion

On the 20th of May my class 8Y and 8G went on an excursion to Killelea State Park. When we arrived, we were given a worksheet for some of the activities we were going to be doing on the day. We went for a walk through the rainforest and saw lots of different beautiful local native flora and fauna. This walk went for around 20 minutes and at the end there was a tree that had berries we could eat! Afterwards, went near the lake to do some activities. These included getting a net and scooping in the water to see if you were able to catch any of the invertebrates that were on the worksheet. We were also able to filter the water and drink it. This was cool but I did learn that it tasted DISGUSTING! After this, we went to the beach known locally as ‘the Farm’. Here, we found some little clam looking invertebrates that lived in the dunes. I found 3 but lost them all in about 5 minutes. Overall, the day was fun and I learnt a few interesting things. I’m looking forward to the next Science excursion!

By Bree Langlands, 8Y
Excursion to the Museum of Human Disease

On the 20th of May, Miss Rueda, Mr Lowis, Year 12 Biology and several students from the Forensic Science Class went on an excursion to the Museum of Human Disease, located at the University of New South Wales (UNSW), Sydney.

The day was filled with curiosity, shock and diseases. We learnt about many different diseases, the importance of good health, and how bad habits could affect you in the near future.

The tour of the Museum went for approximately 2 hours. A volunteer who discussed the ethics related to the Museum, as well as asking us what we already knew about disease greeted us. We then went into the Museum to explore things like the cadavers, simulations of the transport of red blood cells throughout the body, hands-on fat calculators, and eyesight tests. Whilst exploring these, were required to carry out a self-guided ICT activity on the IPad with questions that were related to each of the stations. I was so in awe from the specimens at the Museum that I have been inspired towards hopefully pursuing a career in pathophysiology one day. It was a great day and we’re looking forward to the next excursion for Science.

By Stephanie Ball, Y9.1

Y9
ATOMS

During term 1 in science our class had revised the atoms topic. In previous years of high school we had went over atoms but in this topic there was more detail in the different parts of an atom. I enjoyed learning this topic as I found it very interesting and easy to learn. The first assessment assigned to our class for the year was a Historical Development of Atomic Model Research Task. In this assignment our class was required to provide the History of the Atomic Model which meant finding information about the people who contributed and developed the Atomic model we now use today. We were also required to make a not-to-scale atomic model which was my favourite part of this assignment. We needed to choose an atom on the periodic table and create a model of it showing its correct parts which included the protons, the neutrons and the electrons. What I found hard about creating this model was the electrons as they hover around the nucleus of the atom.

Overall I very much enjoyed the atom topic in Science.

LILIANA SPIROSKI
HSC Chemistry students at work in the classroom:

Determining the identity of the unknown solution

In this experiment students were presented with the same controlled unmarked and marked chemicals. Through a series of tests by mixing one unmarked chemical with a marked chemical and analysing the results, the students determine each unmarked chemical correctly.
In Science we are learning about Animal and Plant cells. We were asked to do a 3D model cell as an assessment task. I decided to make an animal cell cake. It took me a whole day but the end result was amazing and was worth it.

Jordan Lane
University of Wollongong Biology & Chemistry Enrichment Days 2015
ISHS Year 11 Biology and Chemistry students were among 250 students from Illawarra Schools to attend Science enrichment days hosted by UOW on August 4 and August 6 2015 respectively. Students were engaged in practical laboratory sessions and subject specific lectures presented by UOW Masters of Teaching students. They were given a tour of the UOW campus and attended a "meet the scientist session" where they met with Postgraduate and Honors students who explained their field of research. They also discussed collaboration amongst scientists and the impacts they have on Science. Our students were given the invaluable opportunity to work in UOW's innovative new Sciences Teaching Facility building which is technologically advanced. This opportunity allowed our students to experience a day in the life of a university student studying Science at UOW. It has also cemented our students' desire to further their education at university.
Meghan Price Graduate of ISHS 2008 – Pharmacist

Subjects studied for the HSC?
Biology, PDHPE, Visual arts, Advanced English, Advanced Maths

Why you love what you do?
I enjoy being part of a profession that plays an integral role in health care. I get to talk to people daily and ensure they are using their medicines safe and effectively. I work in a community setting where I converse with regular customers that I know by first name. I enjoy being able to help people with problems they may have and improve their health and quality of life.

Your fondest memory of high school?
Year 12 was a fond memory, being with all my friends, I didn’t enjoy high school all that much until the senior years. I particularly loved Biology and PDHPE with my closest friends as well as Visual Arts. It was an exciting time of your life knowing it was on to different things the following year.

The moment you discovered your passion for Science?
I enjoyed Science in high school, but only found my passion for Science when I studied Medical Science at UOW. It was when I was involved in Anatomy, Organic Chemistry and Biology that I really discovered I wanted to do something in Science.

How well prepared were you for your first year subjects at university?
I was quite prepared for most subjects. I did struggle in first year with some subjects as it wasn’t so straight forward in terms of what to study. At school it was more like a set curriculum and dot points you had to know, at uni I struggled in a few subjects with the fact that exams can come from work done in tutorials, in lectures in labs or in the assigned text-book.

What advice would you have for the students of ISHS today?
Keep your options open, get as much work experience as you can to really experience what it's like in that field, research it, google it - whatever, just broaden your mind to what’s out there that might suit you. If you enjoy something or a subject, explore into that and stick with it. Go with what you enjoy.

Why should you choose a career in Science?
Science is an always changing career, it's always updating through new research. This keeps it challenging and interesting.

The impact your career has on other people?
I believe my profession does have an impact on people in the community. I counsel people on their medicines, help organise dose administration aids for people, help promote good health by checking blood pressure, blood sugar and cholesterol for people in my area. I feel a pharmacist is a great interface between seeing the doctor and caring for your own health, I am the midpoint guiding people in the right direction and help translate anything troubling them.
Emily Meldrum Graduate of ISHS 2014 – Bachelor of Environmental Science

Subjects studied for the HSC?
Biology, Chemistry, Earth & Environmental Science, Advanced English, Mathematics, Visual Arts

Why you love what you do?
I enjoy this course as it is very practical and the subjects you do are varied.

Your fondest memory of high school?
Year 11 camp is one of my fondest memories of high school.

The moment you discovered your passion for Science?
I’ve always enjoyed Science even in primary school, however I remember making sherbet and going to the Science centre in Wollongong to see the shows there and that really started the passion for Science.

How well prepared were you for university?
I had bought everything I needed but was not prepared at all. University is very different than anyone says and it took some getting used to.

What advice would you have for the students of ISHS today?
Apply for early entry, it’s easier to get into University. If you need a break from studying a gap year is a good idea. Getting a casual job during University is valuable too.

Why should you choose a career in Science?
People should choose Science careers if they enjoy it and enjoy learning new things all the time.
Isaac Keenan Graduate of ISHS 2014 – Bachelor of Science (Chemistry) UOW

Subjects studied for the HSC?

Mathematics, Chemistry, Physics, Standard English, Modern History

Why you love what you do?

I get such a thrill from Science! I love seeing how things/ the world works, how intrinsic the universe is. It makes my curiosity tick. There's definitely something awe inspiring about learning something new in science about the universe.

Your fondest memory of high school?

I have a few to be honest. I had a really good year group, so there were always good memories. My favourite memory was walking out of my last HSC exam.

The moment you discovered your passion for Science?

Year 10 Science with Mr Ellis. He made Science so interesting for me. I also loved the esterification prac in Year 12 Chemistry. That’s when I found my passion for organic chemistry.

How well prepared were you for your first year subjects at university?

I have felt adequately equipped for University from school because most of the subjects I did in the HSC have been very much relatable to my degree. University however, is quite different in terms of how your education is delivered to you. There aren’t any teachers to push you along or tell you to do your homework, assessments, etc. Making the most of University means putting in lots of self-motivation and study. It’s all up to you!

What advice would you have for the students of ISHS today?

I would recommend getting into good study habits early, otherwise studying will become a menial, tedious task and procrastination may become an issue (stay away from Facebook in the HSC). Take breaks, don't over push yourself. Be good to your teachers. Life continues after the HSC. There are so many ways into Uni if you don’t get the right ATAR.

"Use science for good, not evil" - Mrs Thomas would always tell us.

Why should you choose a career in Science?

Science has so many applications, and by pursuing a career in it, you have the opportunity to change the world and do something you love doing. Research careers would also be quite rewarding as you get to see your own efforts and study being applied.
technology evolves, our lives are dramatically being changed. Your career may have a lasting impact or it may serve as a catalyst for the research and work of other scientists to build upon. There are so many ways you can impact people through various fields of science such as medical, industrial and food science just to name a few!

Consider being a scientist, there aren't enough of them... "Curiosity has its own reason for existing. One cannot help but be in awe when he contemplates the mysteries of eternity, of life, of the marvellous structure of reality." – Albert Einstein

Casey Jamieson Graduate of ISHS 2013 - International Bachelor of Science (Honours)

**Subjects studied for the HSC?**

Advanced English, Mathematics, Biology, Chemistry and PDHPE

**Your fondest memory of high school?**

The HSC Biology and Chemistry practicals. They were always heaps of fun, and you got to do heaps of different experiments!

**The moment you discovered your passion for Science?**

Probably during the Year 9 Science rotation, seeing all the different areas you could study and how broad the subject is. I absolutely loved learning about all the different topics and that’s when I realised I wanted to pursue a career in Science.

**How well prepared were you for your first year subjects at university?**

Even though I did the In2Uni Summer Master Class Program (which was a huge advantage!) it was still quite an adjustment getting used to the academic expectations and the degree of independence expected from you.

**What advice would you have for the students of ISHS today?**

Explore your options and choose to do something that you love! Passion for what you do makes it a lot easier to do!

**Why should you choose a career in Science?**

Science is so broad and can take you in heaps of different directions! Plus, it’s constantly evolving, the practical work is fun and entertaining and you can pretty much be a scientist from anywhere in the world (which means you can travel heaps!).

**The impact your career has on other people?** The career I’m looking at pursuing will allow me to work on research looking at diseases that effect the global population, such as cancer, malaria, and HIV/Aids. In the future, I’ll hopefully be working towards finding a cure for these diseases and helping to eradicate them!
Arben Duci Graduate of ISHS 2008 – Science Teacher

Subjects studied for the HSC?
Advanced English, General Mathematics, Physics, Chemistry, Biology, Engineering studies

Why you love what you do?
I’ve always been interested in Science. I was one of those annoying kids that always asked, "Why"? My questioning of everything lead to me being enthused to be interested in all fields of science. There is nothing more I enjoy than conducting experiments and exciting students. I love teaching science because it allows me to continue learning about the field of Science and it allows me to engage and motivate students to develop an interest and understanding of common scientific phenomena we encounter in our daily lives. My loudness and weirdness makes me unable to work in a scientific lab doing research and perfect for a Science classroom.

Your fondest memory of high school?
Science with Mr Lowis was memorable. School also provided great opportunities to create life-long friendships; every time I think back to school I just remember always having a laugh with friends.

The moment you discovered your passion for Science?
I was lucky enough to have great teachers at Illawarra Sports High School. They were extremely engaging and passionate. A moment that really had me intrigued was when Mrs Thomas demonstrated a precipitation reaction in year 10 Science class.

How well prepared were you for your first year subjects at university?
School science had created a sturdy foundation to be built upon in tertiary education.

What advice would you have for the students of ISHS today?
Listen to and trust your teachers. Be punctual and attentive. You and only you create your own boundaries in your life, reach for the sky.

Why should you choose a career in Science?
Science subjects at school allow you to access a wide variety of courses at university, ranging from medicine, to engineering, to social sciences. The study of science has made significant changes to my life, it has allowed me to make informed choices, it has allowed me to developed research skills, it has taught me to critically analyse everything and it has also made me a good problem solver. These are all skills that the study of science has allowed me to have a strong grasp of. Science should not be thought about only for a University education, in the Stage 6 Senior Science course you study cosmetics and these are the foundations of the TAFE beautician course.
Morgan Cooke Graduate of ISHS 2013 - Bachelor of Science (Biological Sciences)

Subjects studied for the HSC?
Mathematics, Advanced English, Chemistry, Biology, PDHPE

Why you love what you do?
Science is endless! Which means I am always constantly learning something. I love being able to look down a microscope expecting to see nothing but instead a million other things appear!

Your fondest memory of high school?
Drinking hot chocolates and chai latte’s in Chemistry.

The moment you discovered your passion for Science?
I’ve always had an interest for science but it wasn’t until work experience in year 10 that I thought this is really what I want to do. I did my work experience at Wollongong Hospital in the Pathology labs and it really opened my eyes to how what you learn at school can be used in the ‘real’ world.

How well prepared were you for your first year subjects at university?
I was hopeless! I got so lost the first day but subject wise it flowed nicely from year 12. However after the first week it moved away from year 12 knowledge and straight into new things, which was terrifying but exciting!

What advice would you have for the students at ISHS today?
Find what you love, focus on that and stay motivated! Never be too scared to ask for help, whether that is at University, TAFE or any job situation. Study isn’t everything take some time to explore the world and travel.

The impact your career will have on other people?
I’m not sure where my university degree is taking me yet, but I hope whatever I end up doing will have a focus on helping others around me, either directly or indirectly.
Machining lead top hats for shielding during the making of radiopharmaceuticals

Daniel Burrell Graduate of ISHS 2013 - ANSTO Apprentice Machinist

Subjects studied for the HSC?
Chemistry, Biology, Engineering, Advanced Mathematics and Standard English

Why you love what you do?
I enjoy using numbers in my work every day. Each day is a different job with a different approach. I also really enjoy working at ANSTO because you are immersed in scientific work and are a part of furthering scientific research. Also providing society with valuable radiopharmaceuticals is very rewarding.

Your fondest memory of high school?
Learning interesting and useful skills as well as the opportunities and excursions.

The moment you discovered your passion for Science?
It really started from all of the science lessons throughout my schooling.

How well prepared were you for moving into a career path?
ISHS gave me tools to learn and engage and the right attitude towards learning and development. As well as giving me a strong mathematical, engineering and science based understanding and thinking.

What advice would you have for the students of ISHS today?
I would encourage students to have a look at all avenues whether it be University, College, TAFE and/or a full-time job. Collect information on all and work out what avenue suites your passion or your lifestyle.

Why should you choose a career in Science?
The opportunities are vast and exciting, but also rewarding for me in the fact that I am a part of a leading organization of the Australian scientific community.

The impact your career has on other people?
ANSTO provides radioactive pharmaceuticals to patients all over Australia and the southern pacific region. These provide screenings for thyroid cancers and other medical procedures. As part of support services, I believe I am helping to keep these great services ongoing.
Andrew Mills Graduate of ISHS 2008 - Pharmacist

Subjects studied for the HSC?
Advanced English, Mathematics, Chemistry, Ancient History, IPT

Why you love what you do?
My career consists of communicating drug and medical information to patients who often have very little knowledge in this area. As such, I thoroughly enjoy being able to explain complex issues to patients in a way that they can understand and relish the point where they leave the pharmacy happy and knowledgeable of the information that I could provide. I love learning about new drugs and how they interact with the human body and how these agents can be used to improve and in many cases save lives. I thoroughly enjoy educating other Pharmacy graduates, students and interns when they need advice or guidance. I love engaging with people and helping them through not just drug related issues but also being there for them when there are other issues in their lives and assisting as much as I can.

Your fondest memory of high school?
I would have to say my fondest memory of high school is two-fold. Firstly upon entering senior years of 11 & 12 how the year group began to collaborate and engage with each other to get through the struggle of the HSC years. Everyone shared the same goals and all were looking at the finish line of Year 12. My equally as fond memory would be the support provided by all teachers to me on preparing for the HSC, understanding complicated concepts and above all going the extra distance to ensure I had understood the whole concept that was being taught. This was facilitated by all teachers and more so by my Chemistry teacher who assisted me in learning not just what would be in the exam but the theory behind each and every concept.

The moment you discovered your passion for Science?
The moment I would say I knew that I was destined to work in a Science-related industry would probably have been back in primary school. The school library was stocked with so many good non-fiction books that it engaged my interest in the sciences and allowed me to read up about topics I had not even thought existed in easy to grasp ways. I was always an avid reader but the extent of the non-fiction books made the transition from reading fiction to non-fiction so much easier. This passion for science was further engaged when I arrived in Year 7 at high school with my first ever science class in the labs with all the amazing science equipment and exhibits all in the classroom. I just knew this is what I wanted to do.

How well prepared were you for your first year subjects at university?
I was extremely prepared for my first-year Chemistry subjects at University that I could have easily skipped the first six weeks because of the advanced chemistry topics taught in year 12. The other subjects of Biology and Anatomy were foreign to me. However, this being said, the skills of being resourceful, resilient and the study skills taught in high school allowed me to pick myself up and manage to get a credit (>65%) in that subject in the end of session exams.
Andrew Mills story Cntd from Previous page....

What advice would you have for the students of ISHS today?

I think the best advice I received was that the HSC is not the be all and end all. There is more to life then the exams that happen over four weeks in October. So many people I know from my time at university were people that did not initially qualify for university, or decided to work for a few years, or wanted a gap year or were just undecided on their careers that they decided to get some practical experience through TAFE then transition to university. All of these people found a way into university even though their HSC did not go as well as planned. I think the most important lesson I could convey would be resilience. If you have a burning desire to go to university you will get there. Whether it is through a private college that feeds into university, whether its entry into another degree that you could do and then switch into your intended degree or whether it is entry a few years down the track; if you want it that much then the sky is the limit. My career as a pharmacist was not my first plan nor was it my first degree at university but I knew what I wanted and I kept the end goal in mind and now I am here.

Why should you choose a career in Science?

A career in Science has so many possibilities, more so then any other field in my opinion. You can stick with the pure sciences in research or development or you can branch out into the application of science. There are always jobs for people who want to work in any science related industry. This is predominantly due to the skills you obtain when studying science. Skills of resilience, perseverance, ingenuity, critical reasoning and analysis are all taught even though you may not know you are learning them. These skills make you a valuable employee no matter if you decided to work in a science-related field or not. Science has so many branches and possible career paths that if you have any interest there is sure to be a career that encompasses that interest.

The impact your career has on other people?

As a Pharmacist I am responsible for ensuring that a patient’s medication is only going to improve their quality of life. As such the impact of my career is a positive one on people’s lives. The job of a pharmacist is often not fully understood and the potential for positive impact on people's lives can be understated by most people. We are responsible for all the happenings and goings on within the pharmacy even if you didn't personally intervene. As a registered health professional you are often called upon to communicate difficult concepts to patients who have very little knowledge or comprehension, and potentially liaise with other health professionals on the patient's behalf. The impact of a pharmacist can be little understood but can be quite high when it comes to managing a patient’s medical conditions and their medication regimes. This career provides a large sense of self-happiness knowing that you can change people’s lives for the better and being an integral member of the local community.
Mitchell Cunningham Graduate of ISHS 2009 – Civil Engineering Cadetship at the Wollongong City Council

Subjects studied for the HSC?
Extension 1 Mathematics, Advanced English, Chemistry, Physics, Engineering Studies and SLR

Why you love what you do?
Currently I am completing a Civil Engineering Cadetship at the Wollongong City Council, where I undertake full time work with part time university at UOW. I have 2 subjects left and my thesis next year to complete my degree. I really enjoy my current job as it enables me to have a direct link between what I study at university and the work I do.

Your fondest memory of high school?
My fondest memory of high school would not be one memory but the endless memories I shared with friends.

The moment you discovered your passion for Science?
To be honest I cannot remember when I first found my passion for science, I have always had a passion for science. Even from a young age I loved many aspects of science.

How well prepared were you for your first year subjects at university?
I was very well prepared for the first year of engineering at university. The subjects I completed at ISHS meant that most of the first year subjects were simply revision and it gave me free solid foundation for the years to come.

What advice would you have for the students of ISHS today?
My advice for students at ISHS at the moment is to enjoy high school, some of your best memories and life-long friends are built there. And also concentrate in class, ISHS gives a very strong foundation for further study.

Why should you choose a career in Science?
I believe people should choose science because, ISHS enables you a very simple cross over from high school to university and also, university science is a very interesting and fascinating degree.

The impact your career has on other people?
I believe that my degree will affect others and I am hoping to become a civil engineer in council, continuing to give back to a community that has given me so much.
Year 8 Elouera Studying Science

Combustion
Sam Hampton-Piggott

Filtration
Blade Naylor-Hosa
Caleb Allen

Food Chains

Crystalisation
Liam Ross

Layers of the earth
Harmony Avery
Kane Scott
Congratulations to all of our very talented performers in this year's Southern Stars. Special thanks to organising teachers Kristy Starling, Alisha Wood and Lori Cracknell.