



QMEA MID-YEAR NEWSLETTER 2017

2017 TO DATE:

30 
EVENTS

 **193**
TEACHERS

1272 
STUDENTS

 **88**
INDUSTRY





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from the DIRECTOR

[QRC Director Skills, Education & Diversity]

The addition of three new industry sponsors and renewal of partnerships will bolster QMEA's services to students and teachers in resources regions.

We welcome back Glencore Mount Isa Mines, BHP Billiton, Jellinbah, Wesfarmers, Hastings Deering and the Wandoan Coal Project.

New Hope Group, Millmerran Power and Middlemount South are new sponsors and partnerships have been renewed with Anglo American, APLNG, QGC, Santos and Arrow Energy. Glencore Coal has expanded its partnership into Central Queensland. New partnerships have enabled three additional schools - Clermont, Capella and Millmerran state high schools - to benefit from QMEA's programs, and increased our reach to 39 schools.

With the support of the Queensland Government through the Gateway to Industry Schools Program, QMEA has delivered 30 events this year involving 1272 students, 193 teachers and 88 industry representatives.

New events, Pit to Port and Beakers, Bots, Build, have been introduced, which include a new emphasis on industry's supply chain and the application of automation and robotics in engineering and chemical processing.

More than 300 students and teachers have participated this year in the popular STEM for School kids and Toolkit for School Kids programs, where students hear from industry people about their journeys from classroom to career, set in realistic industry environments.

After being evacuated ahead of Cyclone Debbie, the resilient students of Central

Queensland returned to Dysart to finish the Make it Now in Trades Camp.

All students completed the camp, and shared their new knowledge with BMA mine site management.



QMEA's year 12 Ambassadors continue to shine with three chosen as finalists in the QMEA Exceptional Female Student category of the Queensland Resources Council's (QRC) Resources Awards for Women. Abi Meehan from Chanel College in Gladstone was this year's winner, receiving the award at the QRC's International Women's Day Breakfast in Brisbane. She has since represented her school and QMEA at many events.

To support the resources sector's talent pipeline, QMEA has provided two apprentice readiness programs on behalf of BMA and MIGAS. Feedback suggests the apprentices are now better prepared for the workplace.

A new addition to this publication is a profile section featuring the experiences of two former QMEA students Riley Stewart and Elaine Elevera. Their journeys will provide inspiration to our up-and-coming graduates.

Finally, we also wish to acknowledge QMEA schools that participated in the Leukaemia Foundation's World Greatest Shave. The story from Moura State High School is a credit to its students, teachers and community.

Enjoy the read!

- **Katrina-Lee Jones**



YEARS
6-9

**STIMULATING INTEREST &
MAKING CONNECTIONS**



YEAR
10

**INFORMING DECISIONS &
INFLUENCING PATHWAYS**



YEARS
11-12

**CHALLENGING &
PREPARING**



POST
YEAR **12**

**WORKFORCE
READINESS**





STIMULATING INTEREST AND MAKING CONNECTIONS YEARS 6-9

Years 6,7,8 and 9 engage in activities to increase their awareness of the resources sector and the range of careers that exist in the minerals and energy sector.

QMEA's new **'Pit to Port'** event was hosted for the first time in March at CQUniversity in Gladstone.

More than 50 year-seven students from Chanel College and Gladstone, Toolooa and Tannum Sands state high schools worked with 11 industry professionals to understand the challenges of moving our mineral resources across Queensland to ports, and onto customers around the world.

Their industry mentors helped them discover the intricacies of operational processes involved, including supply chain management, fleet management and workplace health and safety.

The Physics in Flight trophy will be well fought out at the four Grand Finals playing out over the State.

David Fisser, Science Coordinator at Chanel College said, **"Physics in Flight" is a wonderful program that brings together industry and education in a fun learning experience. The day ensures all students participate and become inspired by the wonderful world of science'.**

Classroom to Careers (C2C) is a program that brings industry practises into the classroom.

Hundreds of students will attend a C2C over term 1 and 2 with a focus being on years 8 and 10.

'What I liked most about Pit to Port was working in different school groups and learning about how everything gets from a hole in the ground to somewhere overseas'

Chanel College Gladstone student

Beakers.Bots.Build covered a lot of ground in Term 1 with the program running across Mount Isa, Brisbane and Moranbah. With close to 150 year-nine students participating in the day-long programs, the young minds were challenged with three separate activities ranging from robotics, design and engineering and chemical processing. Students were assisted by industry personnel from Hastings Deering, Glencore MIM and BHP.

Physics in Flight will see hundreds of year 7 students from across the state designing, testing and flying paper planes while learning about the fun of physics. Students from Mount Isa, Cloncurry, Miles and Gladstone will work with industry representatives to better understand physics concepts while applying these to the design of a paper plane that will stay in the air the longest.



'Pit to Port' students with Kim Starr, Gladstone Ports Corporation



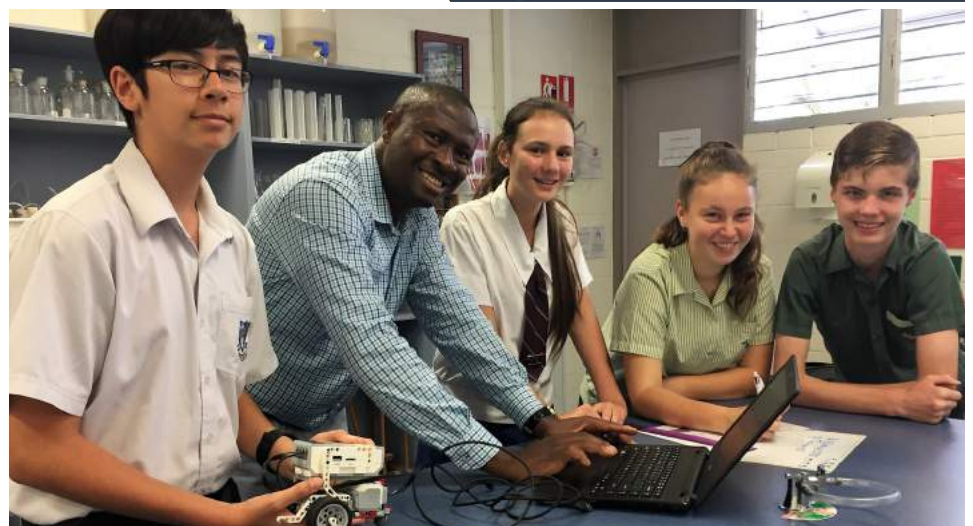
Brian Jobling of Gladstone Ports Corp with students from Toolooa and Tannum Sands SS



Kristy Marks of BHP with QMEA's Tammy Grady and students at Beakers.Bots.Build



Students at the Physics in Flight Grand Final Gladstone



Augustine Oroko of Hastings Deering with students at Beakers.Bots.Build

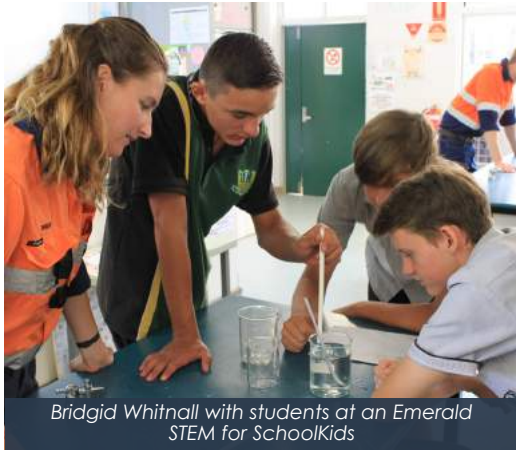
INFORMING DECISIONS AND INFLUENCING PATHWAYS YEAR 10



QMEA's Dan Rea with Wavell SHS students at a Brisbane STEM for SchoolKids

'I really enjoyed the hands on challenges and working with my team to try and solve the problems'

Wavell SHS student



Bridgid Whitnall with students at an Emerald STEM for SchoolKids



Participant at a central Qld Toolkit day



Glencore representative assists a student with a task at a central Qld Toolkit day

Extended periods of engagement within this phase leads to a greater depth of understanding of the resources sector.

STEM for SchoolKids is an exciting one-day program where students with an aptitude for science, technology, engineering and mathematics (STEM) experience hands-on challenges, working alongside industry professionals.

They hear of their mentors' journeys from school to their current role.

Already this year, in excess of 200 students and their teachers have enjoyed working with more than 20 industry mentors from BHP, Glencore Technologies, BMA, Glencore MIM and Glencore Copper Refinery at events in Brisbane, Dysart, Emerald, Mount Isa, Townsville and Mackay.

The impact of these events on students can be seen from the positive feedback received and comments, for example:

It is also a positive experience for industry representatives:

'This event was an excellent opportunity for the kids to engage with industry professionals and gain first-hand insights into the industry. It is an extremely worthwhile and rewarding day for both the students and the industry representatives' ... BMA graduate geologist.

Toolkit days were run in Moranbah (all girls event), Emerald, Townsville and Mount Isa in the first half of 2017, which included 83 students, 12 teachers and 15 industry representatives.

Students spoke to industry tradespeople to gain a deeper understanding of the journey from school to these careers. The students also participated in practical tasks that represented typical trade-related jobs. Some comments from students who attended were telling:

'I really enjoyed hearing from the industry people today. It has definitely shown me that I want a career in mining and engineering'...
Dysart SHS student.

'I got to finally understand what it is really all about and how I can proceed to a future career' ...
Moranbah SHS student

'The practical work really educated me and gave me a real experience of what it is like'...
Emerald SHS student.

'Students realised that the maths knowledge most had forgotten is actually essential in many engineering tasks,'

Spinifex State College teacher

CHALLENGING & PREPARING YEARS 11-12

Targets years 11 and 12 students who have demonstrated a genuine interest in a resources sector career. Students participating in this phase have generally completed earlier activities in QMEA.

The **BMA Make It Now in Trades (MINT) Camp** got off to a bit of a soggy start with students evacuated from Dysart before the approaching Cyclone Debbie, but spirits weren't dampened and 21 year-12 students from Blackwater, Moranbah and Dysart state high schools reconvened for the camp a few weeks later.

The camp, which aims to give students a real experience of trade roles in the resources sector and develop basic trade skills, received great support from BMA's Saraji mine and mine accommodation services company CIVEO.

The students worked with BMA Saraji mine apprentices and trades people in the Dysart Trade Training Centre and stayed at CIVEO's Dysart mine village, providing them with a realistic taste of the working environment. The budding tradies restored old pushbikes recycled from the dump, refurbished them and fitted them with an engine. They also toured BMA's Saraji mine.

QMEA's 2017 Ambassadors have been busy with a number of them speaking at their schools' events including career nights, assemblies and information sessions as well as attending QMEA events for the younger years.

QMEA's senior female students participated in the QRC's International Women's Day and Resources Awards for Women breakfasts across the state.

Three of them were finalists in the QMEA Exceptional Student Award - Felicity Finlayson from North Rockhampton SHS, Abi Meehan from Chanel College Gladstone and Josie Henry from Kirwan SHS.



Participants of the BMA MINT Camp



BMA Saraji mine representative assists at the BMA MINT Camp

'I honestly believe the opportunities I had as a QMEA ambassador really helped me achieve my goal and I am forever thankful for every opportunity that has come my way'

Riley Stewart, 2017 QMEA Ambassador

All three girls attended the QRC International Women's Day Breakfast in Brisbane where Abi was announced winner. She'll continue to be a great ambassador for our sector, both now and post school.

The QMEA has also put forward some excellent indigenous students for the QRC Indigenous Awards and we wish them well.



QMEA Ambassadors on a Hastings Deering tour in Brisbane



Abi with Maria Joyce, WIMARQ Chair, Rag Udd Asset President BMA, and Minister Grace Grace



Site and QMEA mentors at the BMA Apprentice Program

'As someone who is very new to this sector of work the program allowed me to develop skills and become proficient in things I had never tried before.'

BMA apprentice



'Goonyella Riverside' team



2017 BMA Work Readiness Program

WORKFORCE READINESS POST YEAR 12

**Targets students in a post-school environment.
Skills aquired assist apprentices to transition
successfully from school to work.**

The QMEA again ventured into the realm of work readiness, presenting the **BMA Work Readiness Program**.

More than 30 apprentices, including 16 girls worked across BMA's operations in the program, which introduced

apprentices to basic trade skills, BMA's safety culture and accepted code of conduct.

The apprentices have since transitioned to site and indications are they are all going well and maintaining the high standards learnt.



Kayla Myburg participates in the Work Readiness program

WHAT'S COMING UP?

Toolkit days in Rockhampton, Brisbane, Gladstone, Mackay

Trade camp in Mount Isa

Physics in Flight at Miles, Gladstone, Mount Isa and Cloncurry

STEM Stepping Gladstone

Classroom to Career sessions running across several locations

Energy for Future Earth in Brisbane, Blackwater and Gladstone

Beakers.Bots.Build to in five locations

Sky High Thinkers in several locations

WHERE ARE THEY NOW?

One of the most rewarding outcomes of the QMEA is seeing our young people choosing career pathways into our sector, and excelling in them.

Here are just two...

Elaine Elevera

Elaine Elevera is a former Wavell State High Student and a 2014 QMEA Student Ambassador.

In 2013 she was selected for the QMEA's Make It Now Engineering Challenge. The challenge gave Elaine the opportunity to travel to Mount Isa and take part in a real feasibility project with professional engineers and mine management.

The highlight of this challenge was going underground at Glencore MIM's copper mine where she gained an appreciation of the magnitude of the resources sector.

After the challenge, Elaine participated in the 2014 Moranbah MINE Challenge, became a QMEA Student Ambassador, participated in site visits and spoke to many students and teachers about her experiences.

In July this year, Elaine sets off to Cambodia for two weeks to participate in a humanitarian engineering design project. Now in her penultimate year of process engineering at QUT, Elaine has secured vacation work with offers from two QRC member companies.



Riley Stewart

Former Queensland Minerals and Energy Academy (QMEA) Ambassador Riley Stewart is now training as a diesel fitter, and credits his QMEA experiences with landing him his apprenticeship with Hastings Deering.

Riley will be the fourth generation tradie in his family.

This year the former Biloela State High School student was one of 21 apprentices selected by mining support company Hastings Deering.

'The magic moment for me was being chosen for an apprenticeship when so many others applied. To be chosen over thousands is really something. I honestly believe the opportunities I had as a QMEA Ambassador really helped me achieve my goal and I am forever thankful for every opportunity that has come my way,' said Riley.



COMMUNITY NEWS



Close shave for teachers

Many teachers are driven to tearing their hair out at some stage, and students from QMEA school Moura state high school have given them a hand to lose their locks, but in a good cause.

The students held a 'mini' 'Shave for a Cure' event to raise funds for the Leukaemia Foundation, a joint initiative between the school, QMEA and Thiess (Dawson South Mine).

The school has been raising funds for student Kathy Reynolds, who has sacrificed her locks for the 'Shave for the Cure' fundraiser.

Three teachers, Mr Finlay, Mr Hayes-O'Sullivan and Mrs Dowden also bravely offered their scalps to the students' razors and some interesting works of art were created on their shiny pates.

Thiess generously agreed to an additional donation to the Leukaemia Foundation as well as providing sustenance in the form of a sausage sizzle.

A total of \$1,327 was raised by the school for the Leukaemia Foundation



THANK YOU TO OUR SPONSORS





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