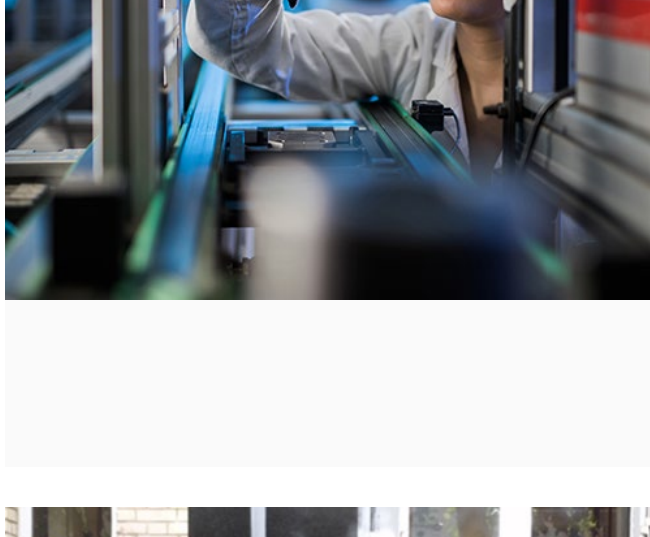


# Science Alliance newsletter

## Women in STEM

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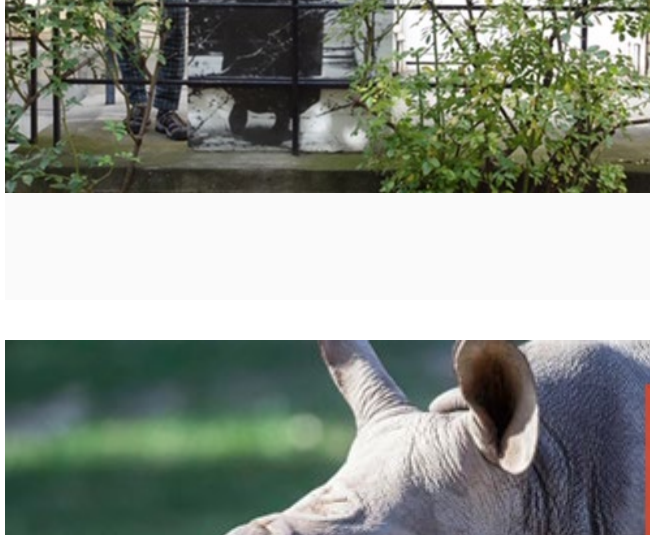


### Where are the women in STEM?

Written by Adam Spencer

Did you know that one in four girls is not taking any maths subjects in the HSC, compared to one in 10 boys? We need to do more to encourage young women to enter STEM fields.

[Read more](#)

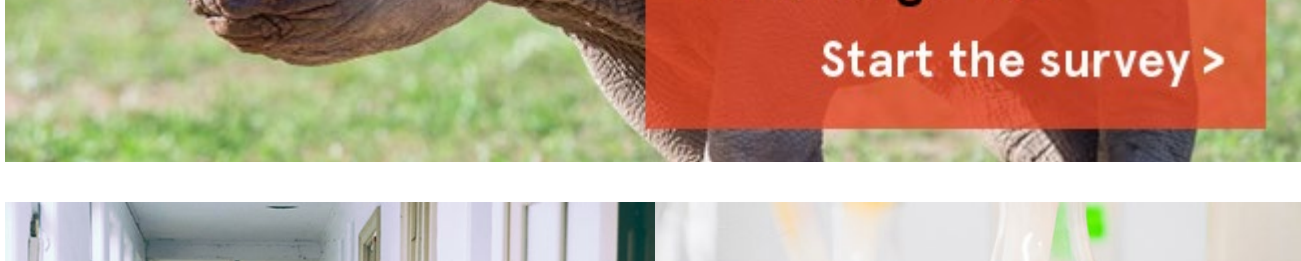


### The unknown Marie Curie

Written by Dr Karl Kruszelnicki

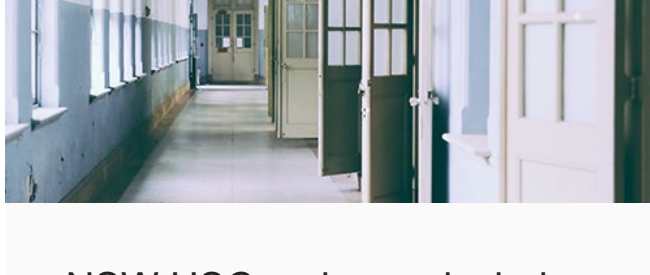
Marie Curie – the first person to win two Nobel Prizes – was also a great humanitarian. Discover how she set up and ran *petites Curies* (little Curies) on WWI battlefields.

[Read more](#)



## Participate in our newsletter survey and win a family pass to Taronga Zoo

[Start the survey >](#)

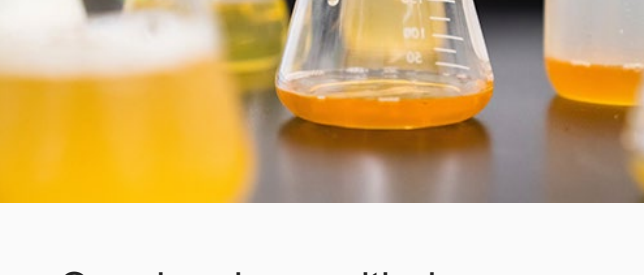


### NSW HSC no longer includes women's contributions to physics

Written by Kathryn Ross and Tom Gordon

The new HSC physics syllabus for NSW will contain no mention of the contributions of female physicists to the field. This needs to be fixed before long lasting damage is done to Australia's next generation of scientists.

[Read more](#)



### Opening doors with drug design

Written by Dr Alice Williamson

Historically, the discovery of new medicines was a process based on trial and error. In the mid 1940s two scientists started to think about drug discovery in a different way. Gertude Elion, who won a Nobel Prize for her work, kept knocking on doors until someone let her in.

[Read more](#)



### Standing on the shoulders of silent giants

Written by Clare Birch

Have you heard of Emmy Noether? She's the woman behind "one of the most important mathematical theorems ever proved in guiding the development of modern physics".

[Read more](#)



### Our non-Indigenous allies: the story continues with an amazing woman in STEM

Written by Shannon Foster

Dr Libby Sakker was the one and only teacher throughout my entire education that saw me and honoured my Aboriginality. Libby Sakker was and still is a fierce and dedicated ally to Aboriginal people.

[Read more](#)

## News & Opinion



### Alliance with Taronga delivers conservation degrees at Sydney

With extinction rates accelerating across the world, the need for scientists dedicated to conservation has never been greater. Now students can pursue their dreams with a world-class education dedicated to wildlife preservation.

[Read more](#)

- Global mathematics institute launched at the University of Sydney - [Read more](#)
- Five wins at the NSW Premier's Prizes for Science and Engineering - [Read more](#)
- Sydney Nano announces its five Grand Challenge projects - [Read more](#)

Interested in our latest news and events?

[Follow us on Facebook](#)

## Resources for teachers

### Sydney Science Experience

9-11 January 2019  
Suitable for Year 10 or 11 students

Solve a murder mystery on campus by employing real science through hands-on laboratory sessions and interactive lectures with fellow detectives. Sign up for this three-day Sherlock Holmes adventure.

[Register now](#)

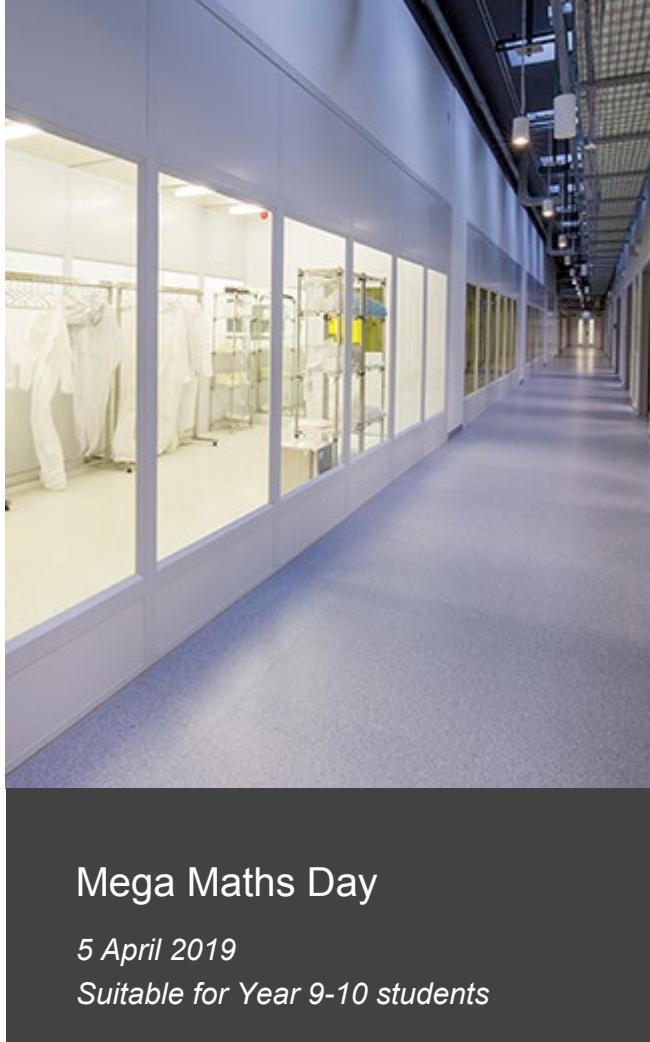


### STEM Girls

17 - 18 January 2019  
Suitable for students entering Year 11 in 2019

This intensive two-day workshop is for female students who want to explore the disciplines in science, technology, engineering and maths (STEM). Participate in hands-on activities, visit our research facilities and hear from the expert panel who are pursuing career in STEM. Applications close on 12 December 2018.

[Register now](#)



### Mega Maths Day

5 April 2019  
Suitable for Year 9-10 students

Your students will be inspired by how maths studies will open doors in their future during Mega Maths Day. The event is full of hands-on workshops showcasing the importance of maths in a variety of disciplines and applications.

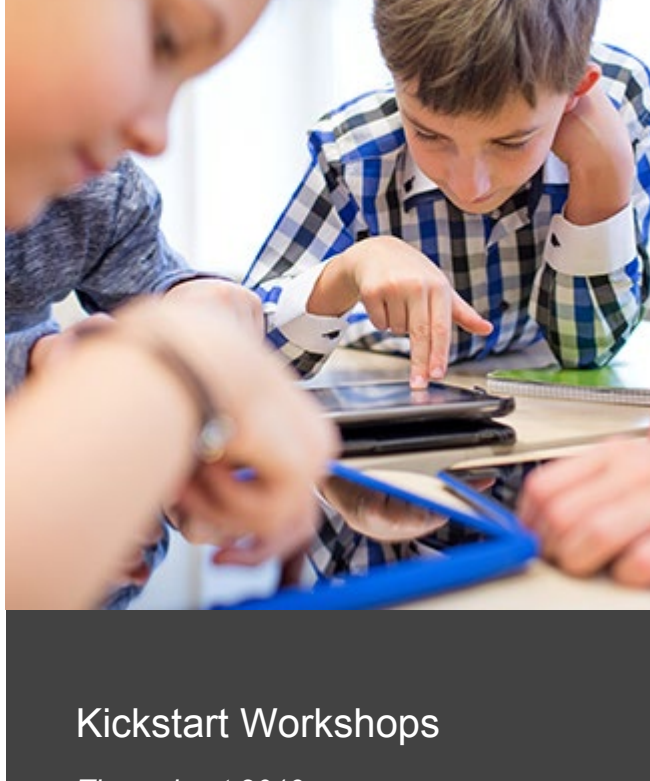
[Express your interest](#)

### Virtual Visits – Mathematics

Available by request throughout year  
Suitable for Years 9-11 students

Sign up for a free Virtual Visit from one of our mathematics researchers. This is a great way to get HSC and ATAR tips, an introduction to careers in mathematics, and insight into life at university. Visits include fun hands-on activities and puzzles.

[Express your interest](#)



### Science Extension – Online Learning Resources

Suitable for teachers and students doing the Science Extension HSC course

Our free learning materials focus on scientific skills and how to apply them to starting a scientific investigation, and how to go about analysing data with appropriate mathematical tools.

[Find out more](#)

### Kickstart Workshops

Throughout 2019  
Suitable for HSC students

Support your HSC biology, chemistry and physics students with new curriculum-centred hands-on laboratory experiments with University-grade equipment. With updated syllabus content, these workshops are bookable from February.

[Register now](#)

### International Science School

7-20 July 2019  
Suitable for Years 11-12 students

The ISS is a residential program at the University of Sydney, bringing together 130 top science students for inspiring talks, visits to cutting-edge research labs, and amazing hands-on activities. Applications close on 3 March 2019.

[Find out more](#)

## Other resources for schools and communities

### HSC Preparation courses

Sign up for new HSC Preparation courses in January 2019, led by highly-trained educators. Offered by the Centre for Continuing Education. [Learn more](#)

### Maker Project Funding

Apply for funding up to \$20,000 to support projects that encourage practical skills, creativity and entrepreneurial thinking. Offered by Inspiring Australia. [Learn more](#)

### Supporting Young Scientists Program

Apply for SYSP grants to attend STEM-related competitions, events and courses being held between July 2018 and June 2019. Offered by the NSW Department of Industry. [Learn more](#)

## What's on

## Science Alliance Programs and events

2019 edition

[Download PDF](#)

Our 2019 events will be announced in the next newsletter in January. For general information about our events, please [visit our website](#).