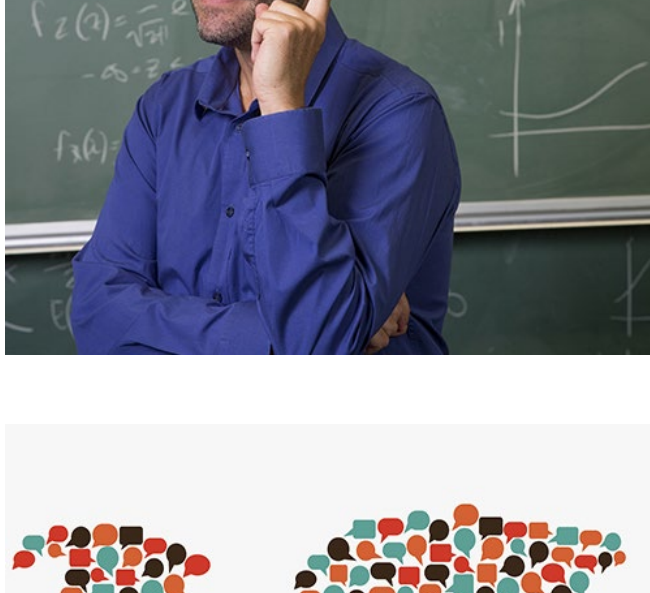


Science Alliance Newsletter

Game Changers and Change Makers

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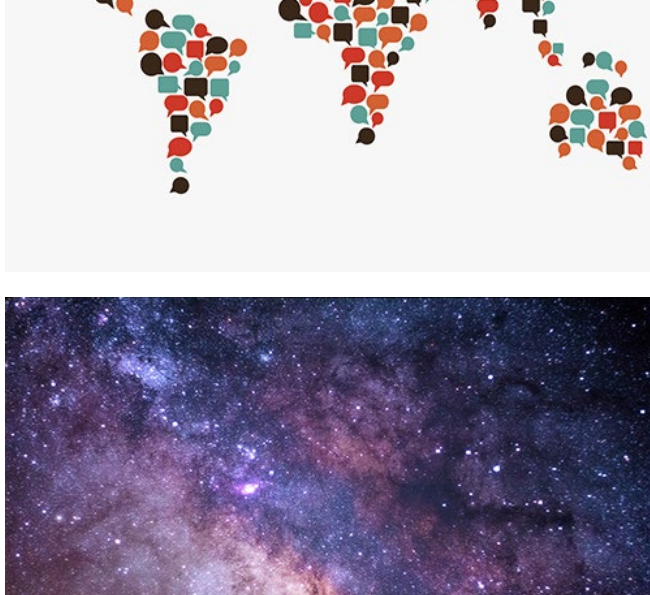


Australia's got talent

Written by Adam Spencer

Welcome to the latest edition of Science Alliance, which is arriving in your inbox just as Australia's most prestigious scientists have been announced Eureka Prize finalists.

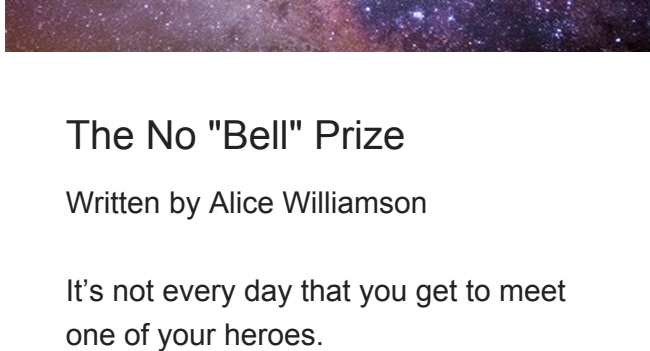
[Read more](#)



Foreign Accent Syndrome

Written by Dr Karl S. Kruszelnicki

Imagine waking up one day, to find that you've suddenly started speaking in a foreign accent?! You can't control your new accent. You can't go back to your previous accent. You have Foreign Accent Syndrome. [Read the full story.](#)

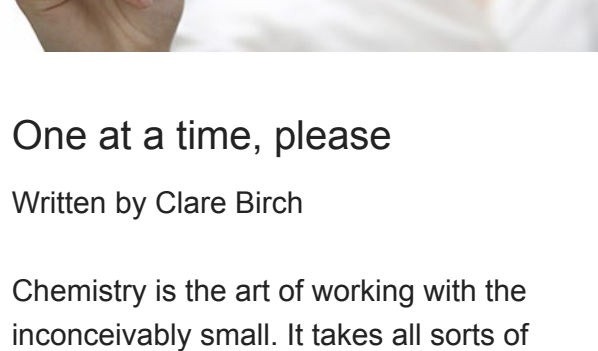


The No "Bell" Prize

Written by Alice Williamson

It's not every day that you get to meet one of your heroes.

When Dame Professor Jocelyn Bell Burnell visited the School of Physics in July 2018, I was thrilled to be in the audience to hear her share the story of her remarkable PhD. [Read the full story.](#)



One at a time, please

Written by Clare Birch

Chemistry is the art of working with the inconceivably small. It takes all sorts of mental gymnastics – squiggly lines, bizarre jargon, nebulous models – to shrink yourself down to the level of an atom, so the idea of picking up individual atoms and making them react seems preposterous. Made-up. Delusional. [Read the full story.](#)

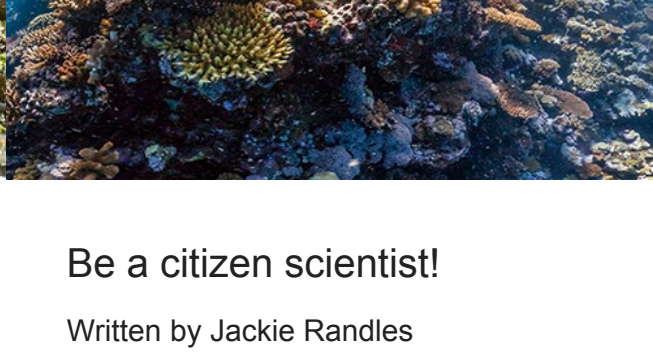


Our allies in Indigenous science

Written by Shannon Foster

As a Sydney D'harawal woman, I felt honoured and privileged to deliver a Welcome to Country to commence the 2018 Australian Science Teachers Association conference (CONASTA) hosted by the University of Sydney during NAIDOC week this year.

It was there, in front of a sea of earnest science teachers that I was inspired to think about, and pay homage to, my HSC Biology teacher, Elizabeth Sakker. [Read the full story.](#)



Be a citizen scientist!

Written by Jackie Randles

Each year during National Science Week, the ABC develops an online citizen science project with leading universities and research organisations. This year's project is all about saving the Great Barrier Reef and schools are invited to get involved.

The project this year is called Virtual Reef Diver, in celebration of the International Year of the Reef and it invites people to dive through their computer screens into the Great Barrier Reef. [Read the full story.](#)

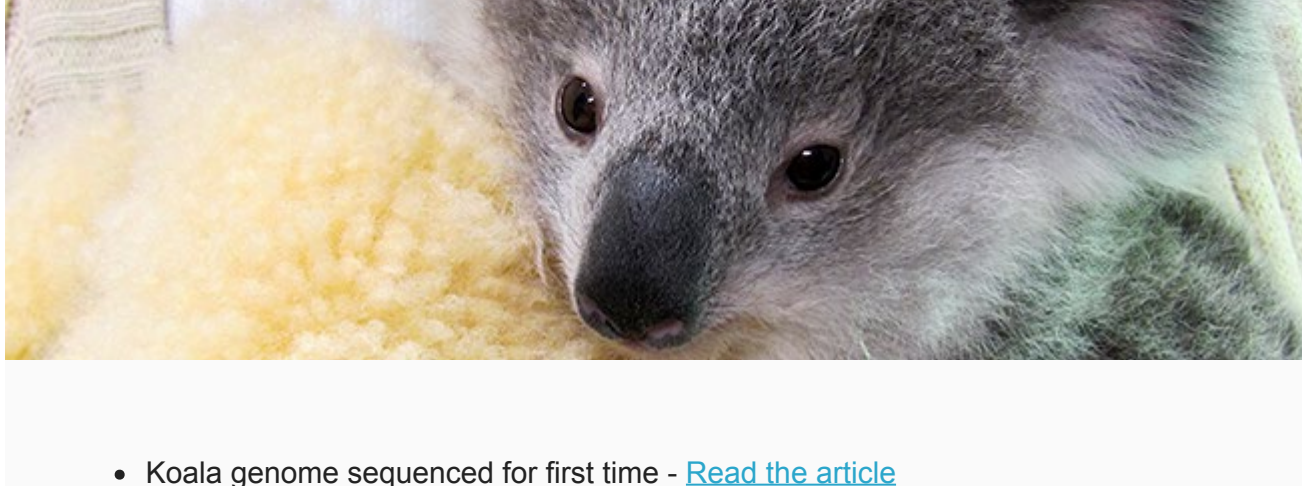


Mathematics course prerequisites begin for 2019 entry

The University of Sydney is introducing mathematics prerequisites for a number of its courses from 2019. Sydney will become the first university in NSW to require year 12 students to have successfully achieved the equivalent of at least a Band 4 in two-unit HSC Mathematics for many of its degrees for admission in 2019. These degrees include economics, commerce, computing, engineering and IT, medicine, psychology, pharmacy, science, and veterinary science. This decision and its importance have been supported by the Chief Scientist of Australia, Dr Alan Finkel, and the Minister for Education, Simon Birmingham.

[Read more](#)

News & Opinion



- Koala genome sequenced for first time - [Read the article](#)
- Monkeys eat fats and carbs to keep warm - [Read the article](#)
- Global tourism carbon footprint quantified in world first - [Read the article](#)
- Yanny or Laurel? Psychology of sound - [Find out more](#)

Interested in our latest news, events and funding announcements?

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Resources for Teachers



Meet our School Programs Officer - Caitlin Fisher

We are excited to introduce our new School Programs Officer, Dr Caitlin Fisher.

Caitlin has a PhD in Physics from the University of Sydney in optical physics and years of experience tutoring K-12 school students and University students in mathematics, general science, physics and programming. As School Programs Officer, her shining goal is to show aspiring school students what a STEM career really looks like in a modern world and how valuable STEM skills are for many aspects of life. Favourite quote, "Most scientists don't wear lab coats."

Virtual Visits

Suitable for Years 9 - 11, Free

Have a mathematics researcher take over your classroom digitally for an hour. Our sessions include a career and research overview, open Q&A and hands-on puzzles.

Term 3 visits are open now!

[Register now](#)

Tea Composition

Relevant to Stages 3 - 6, and subjects ranging from maths to geography to agriculture to biology.

This citizen science project helps build a global map of soil health. The kits and the lesson plans will be provided. 2018 tea bags should be buried in September so sign up now!

[Register now](#)



Science Extension Workshop

9am - 3pm, Friday 26 October

This free workshop is designed to help build a solid foundation in experimental design and data science for the new HSC Science Extension course, suitable for both students and teachers.

[Find out more](#)

STEM Works: Connecting teachers to industry

October 2018

Engage directly with industry partners in the Sydney CBD to hear first-hand about the importance of STEM graduates to the future workforce and the real world problems they are solving and the need for a STEM-trained workforce.

[Express your interest](#)

Science Teachers' Workshop

5 - 9 November 2018

Join us on Professional Development sessions in Agricultural, Biology, Chemistry, Earth and Environmental Sciences, Geography, and Physics.

[Express your interest](#)

What's On

7-19 AUG 2018 SYDNEY SCIENCE FESTIVAL



Ian Beveridge Memorial Lecture

Food and Water Borne Pathogens: A One Health Approach

Learn how a One Health approach can help determine the sources of infections and help to reduce the burden of disease.

6 - 8pm, Thursday 16 August

[Register now](#)

Status Critical: A Conservation Challenge

Calling all scientifically inclined youngsters and oldsters alike to visit Taronga Zoo!

Working in family teams, complete at least six Status Critical challenges that are designed around University of Sydney Research projects and Taronga Zoo's legacy species.

9.30am - 3pm, Saturday 18 August

[Find out more](#)

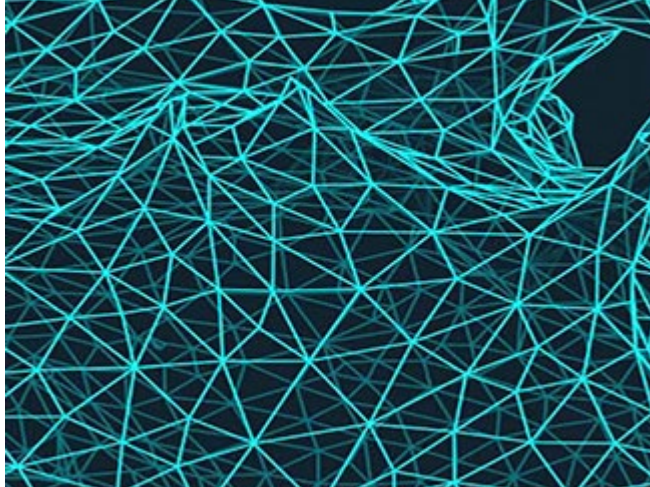
Dr Simon Marais Lecture

Decoding spacetime: The quantum computational universe

Quantum computation could hold the key to explaining the origin of space itself. Presented by Professor Patrick Hayden from Stanford University, this public talk will discuss the remarkable confluence of the practical and the fundamental.

6 - 7.10pm, Wednesday 5 September

[Register now](#)



Sydney Science forum

Adventures in the virosphere: Charting the world of viruses

Discover how new technological developments in 'metagenomics' are allowing us to obtain a glimpse of this total universe of viruses.

5.45 - 7pm, Wednesday 12 September

[Register now](#)