



national SCIENCE WEEK 2019

SOUTH AUSTRALIA

10-19 Aug 2019

www.scienceweek.net.au

Message from the Minister

Welcome to South Australia's National Science Week 2019.

Now in its 22nd year, National Science Week celebrates science and showcases scientists highlighting the ways their work impacts our everyday lives. It also seeks to inspire young people to consider a career in science.

With \$90 billion in naval and defence projects in the pipeline, and as our economy diversifies into new and emerging industries such as space, cybersecurity, digital services, health and renewable energy, the skills and qualifications that build knowledge in science, technology, engineering and mathematics are critical to South Australia's economy, as well as to the ever-evolving global landscape.

It is vital that we do all we can to ignite the flame of curiosity in young people and show them how a career in science can change the world.

Australia's first national space agency will open its doors at Lot Fourteen here in South Australia later this year, giving young people an insight into the exciting career possibilities open to them in space operations, space science, Earth observations, positioning systems and communications.

Fittingly, the theme for this year's National Science Week is ***Destination Moon: more missions, more science***, which looks to the past to explore how big picture thinking in science solved seemingly impossible problems in space programs, operations and missions, and how it will help to forge future paths.

I encourage you to get involved in any of the hundreds of science events and activities on

offer across the week throughout metropolitan and regional South Australia.

Science Alive! attracts around 30,000 people over three days and is one of Australia's largest science festivals, while Big Science Adelaide offers a curated program of events for people who may not normally attend a science-related event.

There will also be panel discussions, debates, presentations, lectures, workshops, master classes, hands-on activities, behind-the-scenes discovery tours, forums, screenings and exhibitions.

South Australia is a centre of scientific and technological achievement, boasting award-winning researchers and world-class universities, research and cultural institutions.

National Science Week celebrates our state's proud tradition of innovation and showcases the world-leading scientific minds we have here in South Australia.



A handwritten signature in black ink, reading "David Pisoni".

Hon David Pisoni MP

Minister for Industry and Skills

The SA National Science Week Coordinating Committee extends thanks and appreciation to the many sponsors and supporters who have contributed to the 2019 National Science Week events and celebrations in South Australia.

Key to Event Listings



Archaeology & Antiquity



Environment & Nature



Health & Medical



Innovation & Technology



Space & Astronomy



Free event



Entry fee



Family-friendly



Adults



Big Science Adelaide event (see p39)

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Cover: Lake Eyre from Space: NASA

Page Background: JJ Ying on Unsplash

p15 Titan: NASA Cassini Team • p17 Tiger Beetle: Entomology and Collembola Collections, South Australian Museum • p19 Jupiter: NASA/JPL-Caltech/SwRI/MSSS; Processing: Kevin M. Gill • p27 Stellar bow shock wave: NASA • p28 Tiger: Vlad Tchompalov on Unsplash • p30 Hourglass: Aron Visuals on Unsplash • p31 Waite: Michael Coghlan [flickr.com/photos/mikecogh] • p34 Eucalyptus: Pete Tillman [flickr.com/photos/29050464@N06] • p45 Cooksonia: Matteo De Stefanio • p46 Robot: Franck V. on Unsplash • p50 Cards: Julius Drost on Unsplash • p53 Maroon Hood Orchid: Cowirrie [flickr.com/photos/111339831@N02] • p55 Egyptian Astronomy: Hans Bernhard • p58 Exoplanet: James Morrison • p61 Leafy Sea Dragon: Antoine Taveneaux •



SCINEMA

INTERNATIONAL SCIENCE FILM FESTIVAL 2019

SCINEMA International Science Film Festival

When: Throughout August

Where: Online and various locations in South Australia

Screening registration: (08) 7120 8600

Booking & info: [scinema.australiascience.tv/
community-program/](https://scinema.australiascience.tv/community-program/)

It's back! SCINEMA International Science Film Festival for 2019 will showcase not only the best, but also the diversity of science films from across the globe. From drama to documentaries, animations to epic natural history, at Australia's Science Channel we're passionate about the power of the moving image to tell stories about the world, how it works and our place in it. The Community Screening program will run during August when anyone can register to host their own film showing.

Supported by a National Science Week grant



The following are events being held in metropolitan areas throughout August and beyond.

The list of events outside the metropolitan area start on page 56.



HEDONISM at MOD. Exhibition



When: Fri 24 May – Sun 3 Nov



Where: MOD. UniSA, North Tce, Adelaide

More Info & Times: mod.org.au

In HEDONISM we are surrounding ourselves with plants, we look at social media and social connections, try the impossible (making exercise fun!) and we go to space to learn how to navigate consent in relationships. Find new ways to make you feel good for a lifetime, not just a weekend.



2019 South Australian Young Tall



Poppy Awards



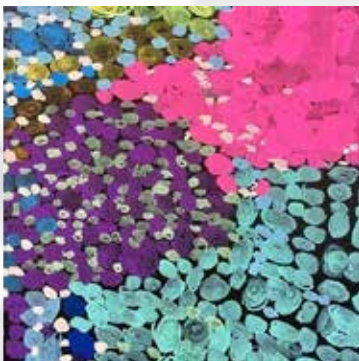
When: Mon 29 July, 6pm

Where: Reading Room, Barr Smith Library, University of Adelaide

Cost: Invitation only

More Info: aips.net.au

The prestigious annual Young Tall Poppy Science Awards aim to recognise and celebrate the achievements of South Australia's outstanding young scientific researchers and communicators. His Excellency Hieu Van Le AC, Governor of South Australia, will present the awards for outstanding research and academic achievement, as well as excellence in communication and community engagement to promote an understanding of science.



Charlie Taplin, 'Microscopic' (artwork detail), Posca and Acrylic Paint on Board, 60 x 80 cm

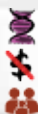
Molecule

When: Thurs 1 Aug – Mon 7 Oct, 9am to 5pm

Where: Royal Adelaide Hospital Emerging Artist Galleries, RAH, Port Rd, Adelaide

More Info: Fiona Borthwick 08 7074 1439, fborthwick@creativehealth.org.au or creativehealth.org.au

Molecule is a visual art exhibition showcasing a series of artworks by Tutti Artist, Charlie Taplin. His latest works are an exploration of microscopic inspired imagery and have a particular focus on medical themes.



Field Geology Club of SA presents the Brian Daily Memorial Lecture

When: Thurs 1 Aug, 7.45pm

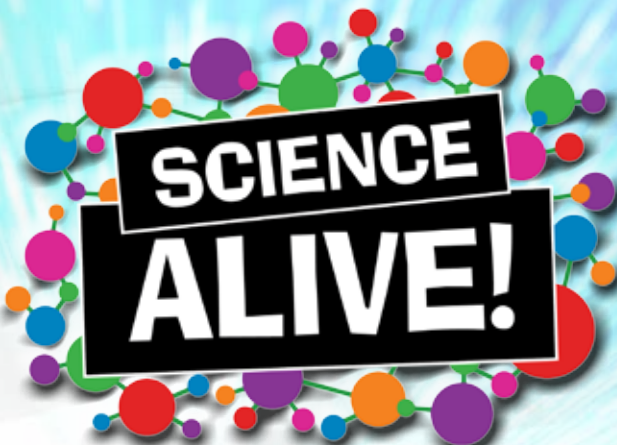
Where: Mawson Lecture Theatre, Dept of Geology, University of Adelaide

More Info: fieldgeologyclubsa.org.au

This year's Memorial Lecture will be given by Professor Pat James and is titled "Wicked Witchelina and Hotspot Hiltaba: is it time for another UGG boot in Australia?"

- *Thurs Sept 5: A Karst of Thousands – two weeks in Southwest China. Speaker: Mark Dale*





SCIENCE ALIVE!



Science Alive! 2019 Launch



When: Thurs 1 Aug, 5pm to 7pm



Where: Goyder Pavilion Mezzanine, Adelaide Showground, Goodwood Road, Wayville

Bookings: sciencealive2019launch.eventbrite.com.au

More Info: enquiries@sciencealive.org.au

Science Alive! 2019 will be launched at this networking function that will also highlight the range of activities that will form part of National Science Week this year. The launch features a thought-provoking presentation by Dr Geoff Rogers, winner of the 2018 Prime Minister's Prize for New Innovators for creating a robotic guide wire that can be steered through the body to reach a damaged artery. MC for the evening is Dr Rob Morrison and refreshments will be provided through sponsorship of the event by the Adelaide Showground.

All kinds of awesome.



3 - 4 AUGUST

ADELAIDE SHOWGROUND



Science Alive! 2019 STEM Day Out

When: Fri 2 Aug, 9am to 3pm

Where: Goyder and Jubilee Pavilions, Adelaide Showground, Goodwood Road, Wayville

Bookings: sciencealive.org.au/adelaide-careers-day

More Info: Madeline Noble, 8210 5268, mnoble@adelaideshowground.com.au

The Adelaide STEM Day Out is a FREE event exclusively for local schools. It's a great opportunity for students to connect with people working or studying in the fields of science and technology, spark an interest in a science-related career, get more information of a field they're already passionate about, see the spectacular science shows and amazing interactive exhibits, and meet face to face with energetic young scientists and engineers already in the industry.

Science Alive! 2019

When: Sat 3 Aug & Sun 4 Aug, 9am to 5pm

Where: Goyder and Jubilee Pavilions, Adelaide Showground, Goodwood Road, Wayville

Cost: Under 15 free. Online: Adults \$20, Conc \$17.50. Tickets at door: Adult \$25, Conc \$20

More info and tickets: Online at Eventbrite
Science Alive! is the largest single interactive science exhibition in Australia, and brings together South Australia's big names in science and technology. The event features over 60 exhibitors providing hands-on fun that is interactive, dynamic and educational for all ages! Includes spectacular science shows, native animals, Daleks, Rob and Deane of The Curiosity Show fame, Dr Quark's amazing Scientific Circus Show and so much more.





Jess Taylor, 'Magic Mountain', VR work



SALA Artist Talk:



Orlando Mee & Jess Taylor



When: Fri 2 Aug, 6pm to 7pm

Where: MOD. UniSA, North Tce, Adelaide

Bookings: mod@unisa.edu.au

or mod.org.au/whats-on

More Info: mod.org.au

In virtual worlds can anything substantial really exist? How do we act ethically in virtual worlds? Artists Orlando Mee and Jess Taylor will discuss their VR works exhibited as part of the Pleasure Arcade 5000, part of HEDONISM at MOD.



The Science of Oral Health



When: Fri 2 Aug, 6pm to 7.30pm

Where: Rob Roy Hotel, 106 Halifax St, Adelaide



More Info and Booking: scipubadelaide.org

This event is sponsored by Healthy Development Adelaide. Oral health is critical for a healthy body; diabetes, stroke, and heart disease can be linked to poor oral health. But many people are unaware of how important this part of the body is. Regular Science in the Pub gatherings explore hot topics in science, bringing together a panel of people with specific scientific expertise to help you form a rational, evidence-based opinion about the topic of the month. These forums, in the casual, friendly setting of a pub, are held throughout the year (except January) and are open to everyone, academics and non-academics alike.



Adelaide Planetarium

When: Sat 3 Aug, Sat 17 Aug, Sat 24 Aug, 1pm

Where: Adelaide Planetarium, UniSA, Mawson Lakes Campus, Building P

Cost: Adults \$10, Child/student/conc \$8

Bookings: 08 8302 3138 or [adelaide.](mailto:adelaide.planetarium@unisa.edu.au)

planetarium@unisa.edu.au

On the 1st, 3rd and 4th Saturday of each month the Adelaide Planetarium presents a 30min tour of the Night Sky and a 30min spectacular full-dome movie.

3 Aug: Wildest Weather in the Solar System: After this whirlwind adventure, you'll be glad you live on Earth. Ages 8+

17 Aug: Tycho to the Moon: Tycho the dog doesn't just howl at the Moon – he goes there! Ages 4-8

24 Aug: Cosmic Collisions: Witness explosive encounters that ended the Age of the Dinosaurs and gave birth to new stars. Ages 10+

For those wanting a more in-depth tour of the night sky, try Sat 3 Aug or Sat 17 Aug at 2.45pm for a 60min guided tour of the Solar System. Emphasis is placed on the names of stars and constellations, utilising traditional folklore and mythology.

Beauty in Design:

Learning from Nature

When: Sat 3 Aug - Sun 1 Sept; 8am to 4pm

Where: Folklore Cafe, Mundy St, Port Adelaide

More Info: estuarycare@internode.on.net or [0413 578 086](tel:0413578086) or estuary.org.au

This art exhibition celebrates the beauty of nature's design in the life of the Port River and the processes of nature that inform local restoration projects. Can missing elements in nature's design be returned and existing structures become ecologically friendly?





The Secret History of Our Evolution



When: Tues 6 Aug, 6.30pm



Where: Flinders University Hub,
Multimedia Room

More Info: <http://flinderspalaeosoc.org> or
flinderspalaeo@gmail.com

Join the Flinders University Palaeontology Society for the premier of the new documentary: "The Secret History of Our Evolution". It features Prof John Long who researches the early evolution of vertebrates in order to unravel the beginnings of how the modern vertebrate body plan was assembled. By telling the story of our organs, we become aware of an evolutionary timeline. Our nose is 40 million years old, our coccyx 25 million, our fingers 370 million, while our chin is only 200,000 years old!

Restoring Reefs We Never Knew We Lost



When: Tues 6 Aug, 6.30pm to 8.30pm



Where: Plympton Community Centre, 34 Long St,
Plympton



Cost: min \$2 donation

More Info: butterflyconservationsa.net.au

Speaker: Dr Dominic McAfee. Humanity has had a long love affair with oysters, a relationship that fuelled the global destruction of oyster reefs. We now realise that oysters are ecological super-heroes and interest in restoring lost oyster reefs for enhanced ecosystem resilience is growing, especially in South Australia. Other upcoming Butterfly Conservation SA talks:

- 3 Sept: Protecting Southern Hairy Nosed Wombats in the Mallee – Dr Peter Clements
- 1 Oct: Parasites – The Silent Majority – Em Prof Lesley Warner
- 5 Nov: Evolution of the Southern Australian Vegetation – The World's Biggest Climate Change Experiment – Prof Bob Hill



Museum of Classical Archaeology

When: Tues 6 Aug, 11am to 3pm

Where: Basement of Mitchell Building, University of Adelaide, North Tce, Adelaide

More Info: arts.adelaide.edu.au/classics/museum or 08 8313 4249

This museum has the largest collection of ancient Greece and Rome on display in South Australia. Includes glass, pottery and metalwork, as well as a collection of Egyptian material. The museum is open to the public on the first Tuesday of each month from March to November. School or group bookings can be made at other times.



David Beveridge Adamson and His Orrery

When: Wed 7 Aug, 8pm

Where: Kerr Grant Lecture Theatre, 2nd Floor, Physics Building, University of Adelaide, North Tce, Adelaide

More Info: assa.org.au

Presented by the Astronomical Society of SA. In 1839 David Beveridge Adamson left Scotland for South Australia where he established himself as an implement maker, mechanical genius and astronomer. His Orrery, produced in 1868, is now on display in the Parliamentary Library of SA. Joe Grida explores his life, his telescopes and the history of his remarkable Orrery.

- *Wed 4 Sept: Fred Watson, an astronomer at the Australian Astronomical Observatory, who is best known for his work with science outreach and his many books. He will also make a presentation at the Adelaide Planetarium on Thurs 5 Sept.*



 **In Conversation with 2019 Australian
of the Year Dr Richard Harris SC OAM**



When: Thurs 8 Aug, 7–8.30pm

Where: Adelaide Convention Centre, North Tce,
Adelaide

Info & Bookings: DIS.Events@sa.gov.au

Bookings are essential

The Government of South Australia, in partnership with the Australia Day Council of South Australia, is delighted to present this exclusive opportunity to hear Richard speak from a unique perspective as an anaesthetist and a cave explorer about how an understanding of science can be harnessed for health and survival in challenging environments, and learn what Richard hopes to achieve in the future.

Dr Richard Harris, together with Dr Craig Challen, were part of an international rescue mission to save 12 boys from flooded caves in Chiang Rai, Thailand.





Switched On Indigenous Young Inventors 2019

When: Thurs 8 Aug, 9am to 2.30pm

Where: Lake Windemere B-7 School, 17 Uraidla Ave, Salisbury North

More Info: Miroslav Kosteki or 0425 868 353 or miro@elabtronics.com

Indigenous students aged 10-12 from northern regions will work on various projects mentored by STEM experts from eLabtronics and students from South Australia's three Universities. Projects will be built with energy saving and climate change themes. Working models will be entered into the Royal Adelaide Show Inventors Competition and displayed in September.

Supported by a National Science Week SA Community Grant

Space Day at Campbelltown Library

When: Sat 10 Aug, 9.30am to 2pm

Where: Campbelltown Library, 171 Montacute Rd, Campbelltown

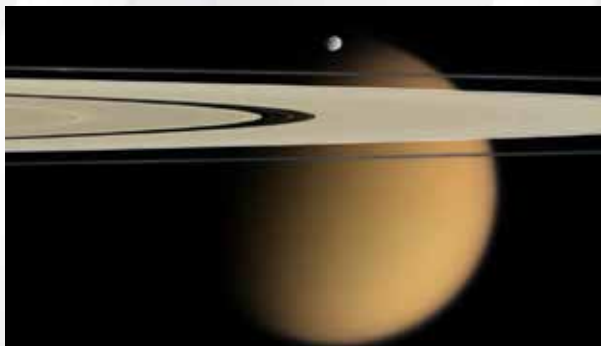
Bookings: 08 8366 9299 or

library@campbelltown.sa.gov.au

More Info: campbelltown.sa.gov.au/library

Get excited about Space at the Campbelltown Library Space Day. Visit interactive VR pods, listen to guest speakers, join in the crafty corner for kids, participate in the Space Scavenger Hunt and come wearing something Space-y for prizes.

Supported by a National Science Week SA Community Grant





2019 | SA Science Excellence Awards

South Australian Science Excellence Awards Gala Dinner

 **When:** Fri 9 Aug, with proceedings beginning at 6.45pm

Where: Adelaide Convention Centre, Hall M, North Tce, Adelaide

Cost: \$130/ticket. Bookings essential

More Info: www.scienceawards.sa.gov.au

The Science Excellence Awards Gala Dinner is the premier event in South Australia's Science and Research calendar. The function also celebrates the official launch of National Science Week in South Australia. The finalists and winners of several awards, including Tall Poppy of the Year and the Unsung Hero of South Australian Science and Science Communication, are announced and celebrated. The Awards showcase the critical importance of science and research to the development of industry and our society. Guest Speaker is leading Australian science communicator Dr Karl Kruszelnicki.



South Australian Museum's Science Centre Open Day 2019

When: Sat 10 Aug, tours from 10am to 4pm

Where: South Australian Museum, North Tce, Adelaide

Bookings: 08 8207 7575 or programs@samuseum.sa.gov.au

More Info: samuseum.sa.gov.au/explore/program-bookings

More Info: samuseum.sa.gov.au

The South Australian Museum's Science Centre is a hub of scientific research which is rarely on view to the public. Come behind the scenes, meet scientists, explore the Science Centre and get a rare look at collections and research facilities.

Supported by a Big Science Adelaide grant

Great Moments in Antarctic Science with Dr Karl

When: Sat 10 Aug, 11am to 12pm

Where: South Australian Museum, North Tce, Adelaide

Bookings: 08 8207 7575 or programs@samuseum.sa.gov.au

More Info: samuseum.sa.gov.au

Dr Karl will amaze you with his adventures in Antarctica and how you can still see blue skies above you in a blizzard! You'll also have the opportunity to ask those burning science questions – be they chemical, physical, technological, biological, astrophysical or astronomical. His enthusiasm for science is totally infectious and no one is better able to convey the excitement and wonder of it all than Dr Karl Kruszelnicki. This special session is aimed at primary school age children and their families.





Hills Science Expo



When: Sat 10 Aug, 9.30am to 5pm



Where: Cleland Wildlife Park, 365 Mt Lofty Summit Rd, Crafers

Cost: Park entry fees apply

Bookings: trybooking.com/book/event?eid=523194&

More Info: ahsciencehub@gmail.com

Join the Adelaide Hills Science Hub and Fungimap for a day of talks and displays. Learn about coding, frogs and wildlife-friendly gardens, do nature art, become a citizen scientist, and take fungi and biodiversity walks. There will be lots to do! Book online to also get a discounted rate on entry to the park for the day.

Supported by a National Science Week Community Grant



State Herbarium Science Tour



When: Sat 10 Aug, 11am to 12pm



Where: State Herbarium, Hackney Rd, Adelaide

Cost: \$10



Booking and More Info: botanicgardens.sa.gov.au/whats-on

Located in the heritage-listed Tram Barn, the State Herbarium houses more than a million dried specimens. Join a guided tour of the vaults and discover the role that South Australia plays in plant science, conservation and biodiversity management.

Supported by a Big Science Adelaide grant





SCINEMA Screening at Adelaide Botanic Garden

When: Sat 10 Aug, 2pm to 4.30pm

Where: Noel Lothian Hall, Adelaide Botanic Garden, North Tce, Adelaide

Cost: Gold coin donation

Booking and More Info: botanicgardens.sa.gov.au/whats-on

Relax with your friends and family and enjoy this year's winning films from the International Science Film Festival. Grab popcorn and if you're feeling adventurous try the edible insect trail mix. Contact the venue for viewing details.

Supported by a Big Science Adelaide grant



Stockport Observatory Star Party

When: Sat 10 Aug, 7pm to 10.30pm

Where: Stockport Observatory, Observatory Rd, Stockport

Bookings: 0407 558 036

or assa.org.au/facilities/stockport/

More Info: assa.org.au

Join members of the Astronomical Society of SA at this stargazing evening that will introduce the public to the beauty of the heavens from a dark-sky location. Look through the three permanently mounted telescopes at the Observatory as well as many small portable ones. See the craters on the Moon, the cloud belts and moons of giant Jupiter, the beautiful rings of Saturn and the red sands of Mars. Includes talks and demonstrations.

Supported by a National Science Week SA Community Grant



Dr Karl Kruszelnicki



Great Moments in Science



with Dr Karl



When: Sat 10 Aug, 7–8.30pm (book signings from 5.30pm and at end of event)



Where: Adelaide Convention Centre, North Tce, Adelaide

Cost: Under 16s free; 16 and over \$10

Bookings: Online at Eventbrite

More Info: Rona Sakko on 0419 827 723

or rona.sakko@gmail.com

Sometimes described as an answer looking for a question, Dr Karl Kruszelnicki explains science as you've never heard it before.

Celebrate the strange and wonderful place that is our universe with Australia's most popular science communicator. As Dr Karl explores some of the Great Moments in Science, he answers questions you never knew existed.

Come on a rollercoaster ride of scientific, humorous and fascinating stories which will make you laugh and learn. From the ground breaking and life saving to the wacky and implausible, Dr Karl Kruszelnicki reveals some of the best moments in science.

Who is Dr Karl? He is an Australian science communicator, author, television and radio presenter. He has degrees in physics, maths, biomedical engineering, medicine and surgery, and he has worked as a physicist, tutor, film-maker, car mechanic, labourer, and a medical doctor. The list goes on!

Please join us for an evening with Dr Karl—his enthusiasm for science is infectious!

MC for the evening is Dr Hannah Brown, Chief Science Storyteller at the South Australian Health and Medical Research Institute (SAHMRI). Hannah leads Storytelling, Communication and Development at SAHMRI and she sits at the interface between science and the public.

Before and after the event, Dr Karl will be available for book signings and Dymocks will have a range of Dr Karl's books for sale.

Event sponsored by the Adelaide Convention Centre.





Particle/Wave – Adelaide

\$ **When:** Sat 10 Aug and Sun 11 Aug, shows at 1pm, 3pm, 6pm & 8pm



Where: Adelaide Planetarium, Building P, Uni SA Mawson Lakes Campus

Cost: \$25/\$20 - for ages 16+

Booking and More Info: particle-wave.com

Particle/Wave is an immersive multimedia exploration of gravitational waves where poetry, video art, music and science intersect. Gravitational waves are ripples in space-time, travelling away from exploding stars, merging black holes and other cosmological phenomena. This presentation is a mind-expanding collaboration of artists and internationally renowned scientists.



The Alphabet of Awesome Science: Water



When: Sat 10 Aug and Sun 11 Aug, Show times 1pm and 3pm each day

Where: Star Theatre, 145 Sir Donald Bradman Drive, Hilton

Bookings: bookwhen.com/awesomescience

More Info: Emma Juricin, brainwave@sawater.com.au or 08 7424 2223

Join professors Lexi Con and Noel Edge for a thrilling voyage through the alphabet – where BIG words inspire BIG ideas. This alphabetical, scientific duo are thrilled to be teaming up with SA Water for a sleek and slippery water-infused iteration of their award-winning, critically acclaimed cracker of a show. An alphabet of wet, weird and wonderful words providing an inspirational diving board for 26 splishy splashy (and sometimes explodey) experiments.

Supported by a National Science Week SA Community Grant



Fossils, Gems & Logic Games at Refreshing Memories

When: Sat 10 Aug – Sun 18 Aug; Mon – Fri, 9am to 5pm; Sat & Sun, 11am to 5pm

Where: Refreshing Memories Educational Toys,
438a Main North Rd, Blair Athol

More Info: Mark OMalley 0417 846 008 or
refreshingmemories.com.au

STEM Skill Logic Games – Come and Try: Try your hand at some of the best STEM skill teaching games around. Select from our large range of Thinkfun games and spend some time challenging yourself in logic, spatial awareness and programming sequencing logic. There are games for all types of thinking in many skill development areas.

Free Gemstone Dig: Be a junior geologist and dig real semi-precious gemstones out of a matrix. After identifying it, take it home for your collection.

Come and look at all of the wonderful rocks and minerals we have that you can hold and investigate.

Free Fossil Dig: Be a junior palaeontologist and dig a real fossil out of a matrix. Take it home for your own collection. It's totally free. Get to hold and see a lot of real fossils from dino poo through to a full mammoth tooth.

Supported by a National Science Week SA
Community Grant





VR Experience: Marine Life of the Great Southern Reef

When: Sat 10 Aug, 10.30am to 5pm and Sun 11 Aug, 1.30pm to 5pm

Where: Cove Civic Centre, 1 Ragamuffin Drive, Hallett Cove

Cost: \$4 + booking fee

Bookings: Online at Eventbrite

More Info: emsau.org or 0466 278 187 or admin@emsau.org

Join Experiencing Marine Sanctuaries for a totally immersive experience. Put on VR goggles and immerse yourself in the marine life of South Australia. Experience colourful cuttlefish, friendly sea lions, majestic sea dragons and what it is like to dive under a jetty. You will also have the opportunity to question the scientists about what you have seen.

Supported by a National Science Week SA Grant



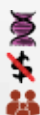
Urrbrae Wetland Open Day

When: Sun 11 Aug, 10am to 4pm

Where: Urrbrae Wetland, Cross Rd, Netherby

Bookings: Online at Eventbrite

The day will showcase a series of interactive workshops hosted by Urrbrae students focused on the natural environment and sustainability, including fish, turtles, reptiles, invertebrates, plants, human impacts and cultural perspectives.



SALA Artist Talk: Danny Jarratt, Owen Churches, Rossinga Possingham, Kale Phillipson

When: Sun 11 Aug, 12pm to 1pm

Where: MOD. North Tce, Adelaide

Bookings: mod@unisa.edu.au or mod.org.au/whats-on

More Info: mod.org.au

Explore rewards at the touch of a button. Find out whose pleasures are catered for or excluded in design and how they're shaped by algorithms.



Props, Jets and Rotors

When: Sun 11 Aug, 10.30am to 3.45pm

Where: South Australian Aviation Museum, 66 Lipson St, Port Adelaide

Cost: Museum entry fees

More Info: saam.org.au

This popular event is staged at South Australian Aviation Museum each year by the Allied and Axis Wings (Aviation Scale Modelling Special Interest Group) and is an opportunity to view some exquisite scale models and talk to the modellers. Visitors can also check out the vintage aircraft, displays, engines and the Woomera Rocket Collection as well as the F-111 aircraft which made aviation history by pioneering variable sweep wings.

RoboRoos Robot Scrimmage

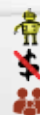
When: Sun 11 Aug, 11.30am to 3pm

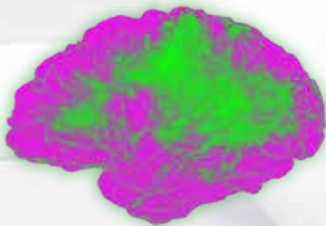
Where: Banksia Park International High School, 610 Milne Rd, Banksia Park

More Info: roboroos.org.au

Want a chance to see FIRST Tech Challenge Robots in action? The Student Robotics Club of SA Inc (RoboRoos) is holding a Scrimmage with teams from around the state competing in Rover Ruckus, a game celebrating the 50th anniversary of the Lunar Landing. This event is a demonstration of STEM in action.

Supported by a National Science Week SA Community Grant





Kids Navigate Neuroscience



When: Sun 11 Aug, 12.30pm to 3.30pm



Where: Bonython Hall, University of Adelaide, North Tce, Adelaide

Cost: \$5 participating child – parents and younger siblings are free

Bookings: Online at Eventbrite

More Info: Lyndsey.collins-praino@adelaide.edu.au

In this event children (aged 4-10) will explore how the brain works in a fun, hands-on way by participating in a series of interactive neuroscience exhibits. At each station children can collect a stamp in their 'Passport to the Brain' and work towards becoming a 'Brain in Training'. Prior to the event (starting at 11:30 am) enjoy free face painting, and balloon artists who will be showing off their neuron making skills! A sausage sizzle and sweets will be available for purchase to benefit the NeuroSurgical Research Foundation.

Supported by a National Science Week grant



Young Explorers August:



What is Science?



When: Mon 12 Aug – Fri 16 Aug, 10am to 12pm

Where: South Australian Museum, North Tce, Adelaide

Bookings: 08 8207 7575 or programs@samuseum.sa.gov.au or samuseum.sa.gov.au/explore/program-bookings

More Info: samuseum.sa.gov.au

Young Explorers is a fun and educational program for children aged 3-5 years. This August, we will explore what science is and why it's so important. Why do we have museums and how does the museum choose what goes into the galleries?



United Science Passport: 'Where in the World has Science Taken You?'

When: Mon 12 Aug – Fri 16 Aug, 10am to 3pm

Where: McLeod House (Lirra Lirra), Waite Rd, Urrbrae

More Info: sciences.adelaide.edu.au/agriculture-food-wine/engagement-industry/why-waite-schools-program

A project of the University of Adelaide's Women of Waite, Why Waite, Women of STEM and Superstars of STEM. You are invited to read about the scientists' travel. Where have they travelled from? Where have they lived? What crazy photos capture their time on this incredible planet? Scientists will be invited to pin their stories onto a large scale world map. The result will be an inspirational, dynamic display of the travels and stories that have brought scientists to Waite.

Science Week in the Library

When: Mon 12 Aug – Sat 17 Aug, 9am to 5pm

Where: Port Adelaide Enfield Library, 2-4 Church St, Port Adelaide

Bookings: 08 8405 6051 or robert.hart@cityofpae.sa.gov.au or cityofpae.evanced.info/signup

More Info: cityofpae.sa.gov.au/library

How do things work in the vacuum of Space? What are Cosmic Rays and how do they affect us on Earth and astronauts on the Moon? Build and fly your own rocket. Just a few of the science-focussed programs offered by Port Adelaide Enfield Library. Visit the Events Calendar for details.





Science in the House: Open House at the Architecture Museum



When: Tues 13 Aug, 11am to 1pm

Where: Architecture Museum, UniSA Karna Building, Fenn Place, Adelaide

More Info: aad.unisa.edu.au/research/research-areas/architecture-museum

The Architecture Museum will be open for a behind the scenes lunchtime viewing of architectural drawings, maps, photos, notebooks and ephemera so you can discover some of the mysteries of our homes. From hygienic surfaces and efficient kitchens to plumbing, ventilation and sun shading, science has played an important part of the design of houses.



Saving Biodiversity through Transformative Change



When: Tues 13 Aug, 12pm to 2pm



Where: Helen Mayo Sth, SG20 Hone Lecture Theatre, Medical School, University of Adelaide, Frome Rd, Adelaide

Bookings: Online at Eventbrite

More Info: nengye.liu@adelaide.edu.au

In May 2019, The Global Assessment of the Intergovernmental Science - Policy Platform for Biodiversity and Ecosystem Services - highlighted the critical importance of biodiversity to human well-being. This forum brings together a leading scientist, prominent environmental lawyers, representatives from the South Australian Government and an Indigenous representative to discuss how to address the overarching questions: 'What does transformative change look like?' and 'How do we implement it?'

Supported by a Big Science Adelaide grant



From Tiger to House Cat: applying Zoos SA's animal welfare techniques to your pets

When: Tues 13 Aug, 5.30pm to 6.30pm

Where: Santos Conservation Centre, Adelaide Zoo, Frome Rd, Adelaide

Bookings: adelaidezoo.com.au/event/science-week-animal-welfare-audit-tool

More Info: adelaidezoo.com.au

Do you ever wish you knew what your pet was thinking? How can you tell if they're happy, healthy or stimulated? Come along to an engaging and informative presentation to hear how zookeepers use scientific methods to understand and enrich the lives of animals. You will learn how you can do the same for your pets at home.

Supported by a Big Science Adelaide grant

Sprigg Lecture Series with Associate Professor Amy Roberts: "Aboriginal Transitions in the Murray River Corridor, from the Pleistocene to the Present"



When: Tues 13 Aug, 6pm to 7pm

Where: South Australian Museum, North Tce, Adelaide

Bookings: 08 8207 7575 or programs@samuseum.sa.gov.au

Associate Professor Amy Roberts is an archaeologist and anthropologist who works collaboratively with Aboriginal communities in South Australia. In recent years she has worked on a wide-ranging project with the River Murray and Mallee Aboriginal Corporation and with their support her talk will canvass some of the results of their field work.



Research Tuesdays: MISSION MAMMAL



When: Tues 13 Aug, 5.30pm to 6.30pm



Where: Braggs Building, The University of Adelaide, Victoria Dr, Adelaide

Bookings: Online at Eventbrite

More Info: adelaide.edu.au/researchtuesdays

From the lions of the Serengeti to the blue whales of the Southern Ocean, mammals dominate our planet. But their future is far from assured. Many species now require urgent conservation - and here in Australia we have a critical role to play. We're home to a huge range of mammals, with a remarkable 87% found nowhere else on Earth. University of Adelaide researchers will share their progress in applying advanced techniques to maintain biodiversity. Presenters include Prof Kris Helgen, Dr Liz Reed, Dr Wayne Boardman and Chelsea Graham.



Shift Work: How to Work Towards a More Efficient, Healthier You When Working Around the Clock



When: Tues 13 Aug, 6pm to 7.30pm

Where: University of South Australia, Magill Campus, St Bernards Rd, Magill

More Info: crystal.grant@unisa.edu.au

If you are a shift worker and have difficulty sleeping during the day, chances are you also have difficulty staying awake at work. At this event, information is provided to improve your daytime sleep and make nutritious choices to become a healthier you. Supported by a Big Science Adelaide grant





Science @ Urrbrae

When: Tues 13 Aug and Wed 14 Aug, 9.30am to 2.30pm

Where: Urrbrae Agricultural High School, 505 Fullarton Rd, Netherby

Bookings: 0438 975 970, vanessa.greenslade601@schools.sa.edu.au

More Info: urrbraehs.sa.edu.au

Urrbrae High School is hosting a series of interactive science workshops. Primary school groups are invited to attend and experience the wonderful aspects of Science at Urrbrae including the Wetland (sustainability and nature), Farm (paddock to plate) and Science Labs (experiments).



Seed Centre Science Tour

When: Wed 14 Aug, 5pm to 6pm

Where: South Australian Seed Conservation Centre, Goodman Building, Hackney Rd Adelaide

Cost: \$10

Booking and More Info: botanicgardens.sa.gov.au

Native plants of South Australia form an integral part of our unique landscapes and ecosystems. However, one in four native plants in South Australia are threatened due to loss of habitat and competition with introduced species. Scientists at the South Australian Seed Conservation Centre support habitat restoration across the State. Tour the facilities and discover how they collect wild provenance seeds and safeguard them for the future.

Supported by a Big Science Adelaide grant





In Class With ... Dr Karl



When: Wed 14 Aug, 10.30am to 11.30pm



Where: Online

Bookings: education.australiascience.tv/in-class-with-dr-karl/

More Info: education.australiascience.tv

Join us as we bring TV presenter, radio reporter and science communicator Dr Karl directly into your homes and classrooms around Australia. He will be answering students' burning questions about anything even slightly science-related.



Adelaide Dolphin Sanctuary

Public Lecture



When: Wed 14 Aug, 6pm to 7.30pm

Where: South Australian Maritime Museum, 126 Lipson St, Port Adelaide

Bookings: maritime@history.sa.gov.au

More Info: Karen Sellar 08 8207 6255 or ksellar@history.sa.gov.au

South Australian Maritime Museum will host a special presentation about dolphins and the history and purpose of the Adelaide Dolphin Sanctuary.

Dr Mike Bossley will draw upon his 25 years of experience in studying the wild dolphin population.

In addition, the South Australian Maritime Museum will offer special dolphin search cruises during National Science Week 2019.

Supported by a National Science Week grant



Short-Tailed Shearwater

When: Wed 14 Aug, 7.45pm

Where: Royal Society Room, South Australian Museum, North Tce, Adelaide

More Info: fnssa.org.au

The Field Naturalists Society of South Australia is SA's first conservation group and aims to promote the study of natural history and environmental conservation. The August guest speaker is Associate Professor Topa Petit from Uni SA. She will talk about the role of plastics and metal contaminants in the failure of the Short-Tailed Shearwater juveniles' migration.



Masterclass: The Language of Plants

When: Thurs 15 Aug, 9am to 4pm

Where: Adelaide Botanic Garden, North Tce, Adelaide

Cost: \$180 per person, plus booking fee

Booking and More Info: botanicgardens.sa.gov.au

A fascinating workshop to learn the 'language' of plant adaptations. Discover how features like flower, colours and textures tell a story of the evolution of plants and how to care for them. Learn how botanical names give clues on the origins and adaptations of plants.

Supported by a Big Science Adelaide grant



Wild Research: Zoos SA's Critical Animal Research and How You Can Get Involved

When: Thurs 15 Aug, 5.30pm to 6.30pm

Where: Santos Conservation Centre, Adelaide Zoo, Frome Rd, Adelaide

Bookings: adelaidezoo.com.au/event/science-week-at-adelaide-zoo-the-spectrum-of-research-and-how-to-get-involved

More Info: adelaidezoo.com.au

Hear from experienced researchers about ways they partner with Zoos SA across a number of specialised areas, ranging from citizen science to university research, and find out how you too can be involved. The incredibly varied research involves animals such as rhinos, African Wild Dogs, Palm Cockatoos, reptiles and more. Learn about all the different methods used to collect data and find out where the zoos' research frameworks fit within what is available in the wider community.

Supported by a National Science Week SA Community Grant





The Ethics of Artificial Intelligence



When: Thurs 15 Aug, 5.30pm to 8pm



Where: 10 Pulteney St, Adelaide



Cost: \$10 general admission, \$5 students, free for underrepresented groups in STEM

Bookings: hello@collaborativenetwork.ai

More Info: collaborativenetwork.ai

Artificial Intelligence (AI) is one of the most important topics of today. Developments in AI will disrupt the economy and the world in ways not seen since the Industrial Revolution. Don't miss this opportunity to hear from world class technology experts for thought-provoking presentations and a panel session.

Supported by a National Science Week SA Community Grant



From Vine To Mind: Following Wine Production From The Vineyard To The Taster



When: Thurs 15 Aug, 6pm to 9pm

Where: Adelaide Convention Centre, Gilbert Suite, North Tce, Adelaide

Cost: \$25 per person, includes multiple wine tastings and light food

Bookings: awri.com.au/industry_support/courses-seminars-workshops/events/from-vine-to-mind-following-wine-from-vineyard-to-taster

More Info: awri.com.au

Since the time of Louis Pasteur, wine production has been a hotbed of scientific innovation. Scientists from the Australian Wine Research Institute in Adelaide have been studying this complex beverage for over 60 years and want to share some of their cutting-edge findings. Guests at this event will follow wine production from the vineyard to the mind of the taster during an informative evening of master classes and a Q and A session, hosted by expert research scientists. Must be 18+ to attend. Supported by a Big Science Adelaide grant



The Evolution of Australian Climate Activism

When: Thurs 15 Aug, 6pm to 7.30pm

Where: Hetzel Theatre Institute Building, State Library of SA, cr North Tce and Kintore Ave, Adelaide

Bookings: programs@centreofdemocracy.sa.gov.au or online at Eventbrite

More Info: centreofdemocracy.sa.gov.au

This National Science Week panel, chaired by Dr Cassandra Star from Flinders University, will provide an understanding of climate activism, investigating early examples and looking at key campaigns of the recent past. The panel will then turn to the future, considering developments including #SchoolStrikeforClimate, what this expresses about Australian society, and its attitudes to science and civil society.



Brains Trust: A Meeting of Minds (in Science and The Arts)

When: Thurs 15 Aug, 6.00pm to 8.30pm (evening starts with light refreshments)

Where: SAHMRI Auditorium, North Tce, Adelaide

More Info: sahmri.org

Bookings essential: sahmribrainstrust.eventbrite.com

The SAHMRI Artist in Residence 2019, Dr Naomi Hunter, has been working with the brain-themed researchers who are exploring and developing treatments for diseases such as Parkinson's and Alzheimer's. In this public lecture, Dr Hunter will present an artist talk about her creative works developed during the residency. Together the artist and scientists will discuss the similarities and synergies between science and the arts and explore what's possible when the Brains Trust collaborate. Supported by a Big Science Adelaide grant



Neuroscience at Night



When: Fri 16 Aug, 6pm to 9pm



Where: AHMS Building, University of Adelaide,
North Tce, Adelaide



Cost: \$20 includes exhibits, wine tasting, take-home glass, nibbles

Bookings: Online at Eventbrite

More Info: facebook.com/neuroatnight or
reneeturner@adelaide.edu.au

Join us during Big Science Adelaide for a fun evening of wine and neuroscience exploring the neuroscience of sex, drugs and salsa dancing and much more. Complete a series of interactive exhibits and compete in a quiz to show off your newfound expertise in neuroscience (and wine!). Then enjoy some time chatting with local neuroscientists over nibbles. For ages 18+.

Supported by a Big Science Adelaide grant



Unlocking the Secrets



of the Kaurna Park Wetlands



When: Fri 16 Aug, 11am to 1pm

Where: Kaurna Park, Waterloo Corner Road,
Burton

Bookings: Online at Eventbrite

More Info: 08 8406 8313 or chocking@salisbury.sa.gov.au

Join experts in natural sciences and indigenous flora to explore some of the secrets of the Kaurna Park Wetlands. You'll be given the chance to take part in some tree planting, and also get some great tips about how you can make a difference in your own garden or your community. The Kaurna Wetlands were formerly the site of degraded farming land, but have now been reclaimed to form a home for a wide range of native flora and fauna, along with an innovative water recycling program. Participants will undertake citizen science activities including conducting a mini bioscan of the area.

Supported by a National Science Week SA Community Grant



To BioNano and Beyond!

When: Fri 16 Aug, 9.30am to 2.30pm

Where: Level 6 Teaching Laboratories, School of Pharmacy and Medical Sciences, Health Innovations Building, UniSA, North Tce, Adelaide

More Info and Bookings: Michelle.Maritz@unisa.edu.au

Join us for a day exploring the world of BioNano science. Learn basic concepts, have a glimpse into 'the day in the life' of a bio-nano scientist and see demonstrations of bio-nano research. Activities include VR bio-nano experience and modelling tissues in 3D. This will give the students the opportunity to work in a research laboratory setting and feel what it is like to be a scientist.

Botany in the Pub

When: Fri 16 Aug, 6pm to 7.30pm

Where: Rob Roy Hotel, 106 Halifax St, Adelaide, registration required

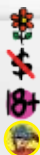
More Info: botanicgardens.sa.gov.au or botanicgardens@sa.gov.au or 08 8222 9311

Bookings: Online at Eventbrite

This is a joint event between Science in the Pub and the Botanic Gardens and State Herbarium. From ancient flora to plants in space: we are living in an age of space exploration, yet it's not just humans that are taking a leap. Plants will be critical to the survival of humans in space, as they have been on Earth for millions of years. Three of Adelaide's leading botanical minds will share their science stories over a pint. Presenters are:

- Prof Bob Hill (University of Adelaide) speaking about Australia's ancient flora
- A/Prof Gunnar Keppel (UniSA) speaking about contemporary issues in plant conservation
- Prof Michelle Waycott (Botanic Gardens and State Herbarium, and University of Adelaide) talking about plant science, contemporary conservation challenges, and the botanical opportunities associated with human space exploration.

Supported by a Big Science Adelaide grant





AI Light Science Spectacular 2019



When: Fri 16 Aug, 6.30pm to 9pm



Where: Braggs Lecture Theatre, University of Adelaide, North Tce, Adelaide



More Info: Miroslav Kosteki on 0425 868 353 or miro@elabtronics.com

A science arena of stunning spectacles and exciting discoveries selected from the forefront of new light science, from nano-scale bio-photonics to understanding the Universe and AI. The audience will be invited to control large colour light ribbons via their mobile phones using WiFi, and use their mobile phone cameras to see IR light. Supported by a Big Science Adelaide grant



Australian Geographic



Nature Photographer of the Year



When: Fri 16 Aug – Sun 10 Nov, 10am to 5pm

Where: South Australian Museum, North Tce, Adelaide

Cost: \$10 adults; \$7 conc; \$5 children aged 5-15; free entry children under 5; \$25 family (2 adults, 3 children); FREE entry for Museum Members

More Info: samuseum.sa.gov.au

The stunning beauty of our natural world is on display at the South Australian Museum in the Australian Geographic Nature Photographer of the Year exhibition. Professional, emerging and junior photographers alike have shown impeccable timing, patience, artistry and technique to capture superb moments in time. Beyond affording us the opportunity of witnessing the unique beauty of the flora, fauna and landscapes of our own backyards, this breathtaking exhibition provokes us to explore the changing nature of regional ecology.



Charles Davis,
'Mountain echidna'

BIG SCIENCE ADELAIDE



**BIG ISSUES,
BRILLIANT MINDS,
GREAT SIGHTS &
TOP SCIENCE**

**FEAST YOUR MIND ON
NATIONAL SCIENCE WEEK
IN THE HEART OF ADELAIDE
SAT 10 - SUN 18 AUGUST 2019**

BIG SCIENCE ADELAIDE

BIG ISSUES, BRILLIANT MINDS,
FEAST YOUR MIND ON NATIONAL SCIENCE WEEK IN THE

Big Science Adelaide is a curated program of events for primarily adult audiences. **Big Science Adelaide** brings together events in and around the Adelaide CBD.

Adelaide is a city of scientific and technological achievement and innovation, with world-class universities, research and cultural institutions, and award-winning researchers. **Big Science Adelaide** celebrates and showcases our diverse and multidisciplinary science and innovation community to inspire pride and increased appreciation and recognition of science.

Big Science Adelaide Program

p17 South Australian Museum's Science Centre Open Day 2019: Sat 10 Aug, 10am to 4pm; South Australian Museum, North Tce, Adelaide

p18 State Herbarium Science Tour: Sat 10 Aug, 11am to 12pm; State Herbarium, Hackney Rd, Adelaide

p19 SCINEMA at Adelaide Botanic Garden: Sat 10 Aug, 2pm to 4pm; Noel Lothian Hall, Adelaide Botanic Garden, North Tce, Adelaide

p20 Great Moments in Science with Dr Karl: Sat 10 Aug, 7pm to 8.30pm; Adelaide Convention Centre, North Tce, Adelaide

p28 Saving Biodiversity through Transformative Change: Tues 13 Aug, 12pm to 2pm; Helen Mayo Sth, Medical School, University of Adelaide, North Tce, Adelaide

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GREAT SIGHTS & TOP SCIENCE

THE HEART OF ADELAIDE | SAT 10 - SUN 18 AUGUST 2019

p29 From Tiger to House Cat - applying Zoos SA's animal welfare techniques to your pets: Tues 13 Aug, 5.30pm to 6.30pm; Santos Conservation Centre, Adelaide Zoo, Frome Rd, Adelaide

p29 Sprigg Lecture Series: Associate Professor Amy Roberts – "Aboriginal Transitions in the Murray River Corridor – From the Pleistocene to the Present": Tues 13 Aug, 6pm to 7pm; South Australian Museum, North Tce, Adelaide

p30 Research Tuesdays: MISSION MAMMAL: Tues 13 Aug, 5.30pm to 6.30pm, Braggs Building, The University of Adelaide, Victoria Dr, Adelaide

p30 Shift Work: How to Work Towards a More Efficient, Healthier You When Working Around the Clock: Tues 13 Aug, 6pm to 7.30pm; University of South Australia, Magill Campus, St Bernards Rd, Magill

p31 Seed Centre Science Tour: Wed 14 Aug, 5pm to 6pm; South Australian Seed Conservation Centre, Goodman Building, Hackney Rd, Adelaide

p33 Masterclass – The Language of Plants: Thurs 15 Aug, 9am to 4pm; Adelaide Botanic Gardens, North Tce, Adelaide

p33 Wild Research - Zoos SA's Critical Animal Research and How You Can Get Involved: Thurs 15 Aug, 5.30pm to 6.30pm; Santos Conservation Centre, Adelaide Zoo, Frome Rd, Adelaide



p34 The Ethics of Artificial Intelligence: Thurs 15 Aug, 5.30pm to 8pm; 10 Pulteney St, Adelaide

p34 From Vine To Mind - Following Wine Production From The Vineyard To The Taster: Thurs 15 Aug, 6pm to 9pm; Adelaide Convention Centre, Gilbert Suite, North Tce, Adelaide

p35 Brains Trust: A Meeting of Minds (in Science and The Arts): Thurs 15 Aug, 6.00pm to 8.30pm; SAHMRI Auditorium, North Tce, Adelaide

p36 Neuroscience at Night: Fri 16 Aug, 6pm to 9pm; Adelaide Health and Medical Sciences Building, University of Adelaide, North Tce, Adelaide

p37 Botany in the Pub: Fri 16 Aug, 6pm to 7.30pm; Rob Roy Hotel, 106 Halifax St, Adelaide

p38 Al Light Science Spectacular 2019: Fri 16 Aug, 6.30pm to 9pm; Braggs Lecture Theatre, University of Adelaide, North Tce, Adelaide

p45 Spot the Bull S...cience: Sat 17 Aug, 4pm to 5.30pm; RiAus, 55 Exchange Place, Adelaide

p47 Waite in the Spotlight - Food and Wine in a Changing Climate: Tues 20 Aug, 6pm to 8.30pm; Lirra Lirra, McLeod House, Waite Rd, Urrbrae

p48 Our Climate: - Trends and Drivers: Tues 20 Aug, 6pm to 8pm, Flinders University (City Campus), 182 Victoria Square, Adelaide

Further Information and event details:
scienceweek.net.au



University Open Days

Flinders University

When: Fri 16 Aug and Sat 17 Aug

Where: Flinders University, Bedford Park

More Info: openday.com.au/event/flinders/

University of Adelaide

When: Sun 18 Aug

Where: North Tce. Adelaide

More Info: adelaide.edu.au/openday/

University of South Australia

When: Sun 18 Aug

Where: City West and City East Campuses. North Tce. Adelaide

More Info: unisa.edu.au/openday

An opportunity to visit the three South Australian university campuses and talk to lecturers and students. With presentations throughout the day and information booths, find all the information you need to know about courses, careers, pathways and university life.



Festival of the Magpie at Cleland Wildlife Park

When: Sat 17 Aug and Sun 18 Aug, 9.30am to 5pm

Where: Cleland Wildlife Park, 365 Mount Lofty Summit Rd, Crafers

Cost: Admission fees to the Park apply; activities are free with park entry

Bookings: clelandwildlifepark.sa.gov.au/plan-your-visit/fees

More Info: 08 8130 9016 or clelandwildlifepark.sa.gov.au or casey.voneinem@sa.gov.au

This festival is a weekend long celebration of the marvellous SA native magpie and features a range of fun and exciting hands-on activities for the whole family, including kids building a giant magpie nest. There will also be a Marvellous Magpie talk by Park Director Professor Chris Daniels, co-author of The Fearsome Flute Players, and A Guide to Urban Wildlife. Learn about the importance of magpies in their local native environment.



The Adventures of Mungo the Magpie

 **When:** Sat 17 Aug and Sun 18 Aug, show times: 11am and 1pm. Cleland open 9.30am to 5pm

 **Where:** Cleland Wildlife Park, 365 Mount Lofty Summit Rd, Crafrers

Cost: Admission fees to the Park apply; show is included

Bookings: clelandwildlifepark.sa.gov.au/plan-your-visit/buy-tickets

More Info: 08 8339 2444 or clelandwildlifepark.sa.gov.au

A delightful theatrical show features performers from the Adelaide Youth Theatre and is an adventure for the whole family in the beautiful surrounds of Cleland Wildlife Park. It explores some of the real and awesome interactions South Australians have experienced with magpies in and around their homes. The show is part of The Festival of the Magpie.

Supported by a National Science Week SA Community Grant



Launch to the Future – Adelaide

 **When:** Sat 17 Aug, 11am to 4pm

Where: Adelaide Planetarium, Building P, Uni SA, Mawson Lakes

Bookings: 08 8302 3138 or unisa.edu.au/planetarium

More Info: performeducation.com/aus-science-week-in-schools

Launch to the Future is a science sketch comedy presentation focusing on how space programs and lunar science propel us into the future using STEM. In a series of comical skits, professional actor/educators use audience suggestions to create uniquely hilarious scenes educating us about space science. This Inspiring Australia initiative is supported by the Australian Government as part of National Science Week.



Spot the Bull S...cience

When: Sat 17 Aug, 4pm to 5.30pm

Where: RiAus, 55 Exchange Place, Adelaide

Cost: \$10 online or \$15 cash only at the door

Bookings: trybooking.com/BDLGV

More Info: thesciencenation.com

Spot the Bull Science is a contest of intelligence, interrogation and deceit. Australia's best and brightest scientists will present three scientific 'facts' - the catch is only two are correct! Your job is to discern fact from fiction while the scientists do their Oscar-winning best to fool you. Proudly brought to you by SAHMRI, the Australian Centre for Ancient DNA and the University of Adelaide.

Gondwana Tour at Wittunga Botanic Garden

When: Sun 18 Aug, 10.30am to 11.30am

Where: Wittunga Botanic Garden, Shepherds Hill Road, Blackwood

Cost: \$12

Booking and More Info: botanicgardens.sa.gov.au/whats-on

Wittunga hosts the largest South African plant collection outside of Africa, as well as southern Australian plants grown nowhere else. These plants may look different but their connection dates back to the days of the supercontinent Gondwana. Join an expert botanist on an insider tour of Wittunga Botanic Garden.

Supported by a Big Science Adelaide grant





RoboRoos Come and Try Day



When: Sun 18 Aug, 11am to 3pm



Where: Ingkarni Wardli Building, University of Adelaide, Gate 6, Frome Rd, Adelaide

Cost: \$5 for badge making

Bookings: roboroos@roboroos.org.au or roboroos.org.au/booking

More Info: roboroos.org.au

Want to know how to build a big robot? Be part of an Award-winning Community Club? Learn electronics? The RoboRoos (The Student Robotics Club of SA Inc) is hosting a Come and Try Day. Showcased are competition robots with fun 'come and try' activities. Attend electronics training then solder your own flashing badge to take home.



Living Seawalls



When: Mon 19 Aug, 7.30pm to 9pm



Where: Port Adelaide Town Hall, 34 Nile St, Port Adelaide

More Info: estuary.org.au or estuarycare@internode.on.net

New life now abounds on Sydney Harbour seawalls through the addition of 3D printed seawall tiles. How and why does this work? Can a Port River trial succeed? The biodiversity of existing seawalls can be enhanced by increasing their intertidal surface area and the diversity of microhabitats that they support. Be inspired by Living Seawalls with Dr Maria Vozzo (Sydney Institute of Marine Science) and Alex Goad (Reef Design Lab).



Waite in the Spotlight: Food and Wine in a Changing Climate

When: Tues 20 Aug, 6pm to 8.30pm

Where: Lirra Lirra, McLeod House, Waite Rd, Urrbrae

Bookings: wits2019.eventbrite.com.au

More Info: keryn.lapidge@adelaide.edu.au

The Waite Research Precinct has world-renowned capability in agricultural, wine, grains, soil and plant breeding science. At this event, hear from Waite scientists in a panel discussion about the impacts of a changing climate on the food we eat and wine we drink and how their research is helping to ensure these industries can adapt. Supported by a Big Science Adelaide grant

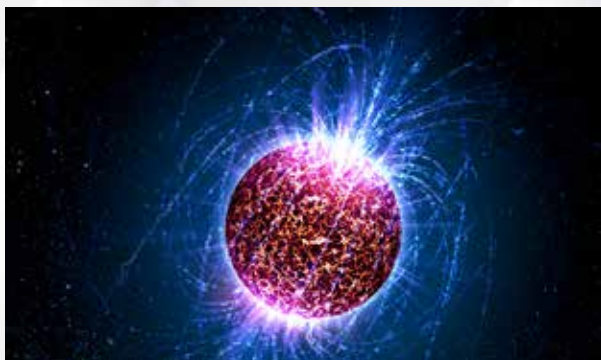
How Neutrons will Save the World

When: Tues 20 Aug, 6.30pm to 7.45pm

Where: Napier 102 Lecture Theatre, University of Adelaide, Adelaide

More Info: aip.org.au/category/sa

ANSTO and the Australian Institute of Physics present the Claire Corani Memorial Lecture. Come along to a fun and educational presentation. Discover what neutrons are and how they are being used to research and solve some of the world's grand challenges. The speaker is Dr Helen Maynard-Casely, a scientist based at ANSTO where she uses the neutrons to investigate the materials that make up our solar system. Neutrons truly are today's super particle!





Our Climate: Trends and Drivers



When: Tues 20 Aug, 6pm to 8pm



Where: Flinders University (City Campus), 182



Victoria Square, Adelaide

Bookings: Online at Eventbrite

More Info: mac.benoy@bom.gov.au or 0415 227 599 or www.ameta.org.au

Our climate is not just governed by the sun and greenhouse gases. It has many drivers, from atmospheric circulation to ocean currents. Even the Antarctic influences our local climate! Come and hear about this complex system and be ready to ask our four experts your questions. Presenters include Darren Ray, resident climatologist at the Bureau of Meteorology, and Jochen Kaempf, Associate Professor of Oceanography at Flinders University. Also joining the forum panel will be Beth Walton, Climatologist, and John Nairn, State Manager of the Bureau of Meteorology.



Community Science Night:



Science is Child's Play



When: Fri 23 Aug, 6.30pm to 8.30pm

Where: Hawthorndene Kindergarten, 1 Kindergarten Ave, Hawthorndene

Cost: Gold coin donation to visit the animal presentation

More Info: hawthornkgn.sa.edu.au

Come and explore various science principles with your young children. There will be hands-on activities with scientists sharing their knowledge about how, why and when reactions and events occur. A team from Warrawong Sanctuary will bring some native animals for viewing and some handling. This evening is a great opportunity to inspire children to continue to wonder and investigate their questions.

Supported by a National Science Week SA Community Grant



Jarrood Castaing,
'Pandani at Lake Oberon'

Autism-Friendly Family Morning: Nature Photographer of the Year

When: Sat 24 Aug, 8am to 10am

Where: South Australian Museum, North Tce, Adelaide

Bookings: 08 8207 7575 or programs@samuseum.sa.gov.au

The South Australian Museum hosts a unique experience designed specifically for children with autism and their families. Before opening to the public, have a chance to explore all the galleries and Discovery Centre.

SciScouts SA Expo 2019

When: Sat 24 Aug, 10am to 4pm

Where: SAHMRI Auditorium, North Tce, Adelaide

Cost: Free; optional \$3 for a Scout Blanket Badge

Bookings: Online at Eventbrite

More Info: Jacqueline.stephens@sahmri.com

Are you a Joey, Cub or Scout? Want to learn about how the body works? Want to learn about how to be healthy? Come along to the inaugural SciScouts SA Expo. You will have the opportunity to try a range of interactive, hands-on activities. The event is hosted by SciScouts, a network of scientists and science communicators within the scouting community who encourage active participation in scientific experimentation and discovery. Event is supported by a National Science Week Community Grant





Elephant Science Awards Open Day 2019

When: Sun 25 Aug, 12pm to 4pm

Where: Festival Functions, 292 Findon Rd, Findon

Cost: gold coin

More Info: oliphantscienceawards.com.au

Come along to the 2019 Elephant Science Awards Open Day to experience the fun and magic of science in action! All prize-winning projects from the 2019 competition will be on display. There will also be science shows and come-and-try activities. Watch presentations from Warrawong Wildlife Sanctuary and spectacular Chemistry from the University of Adelaide. Test your engineering and design skills and try interactive gadgets as well as activities from the South Australian Science Teachers Association.



Science vs Magic

When: Sun 25 Aug, 2pm to 3pm

Where: Domain Theatre, Marion Cultural Centre, 287 Diagonal Rd, Oaklands Park

Cost: All tickets \$5, children 5 and under are free

Bookings: 08 8375 6855 or [events.marion.](http://events.marion.sa.gov.au/en-AU/events/science%20vs%20magic/2019-8-25_14.00/domain%20theatre)

[sa.gov.au/en-AU/events/science vs magic/2019-8-25_14.00/domain theatre](http://sa.gov.au/en-AU/events/science%20vs%20magic/2019-8-25_14.00/domain%20theatre)

The magician is meddling with the science demonstrations! Join magician Rob Ellinger and scientist Dr Erinn Fagan-Jeffries for an hour of science and magic as classic science demonstrations get a magical twist.

Supported by a National Science Week SA Community Grant





Three-Minute Thesis (3MT)

Uni SA: Thurs 29 Aug, 6pm to 7.15pm

Flinders Uni: Mon 2 Sept, 2.30pm to 5pm,

University of Adelaide: Tues 10 Sept, 6pm to 7.30pm

More Info: at the website of each university

The challenge: a research project explained in just three minutes using only one PowerPoint slide. This is a national competition celebrating the research undertaken by PhD students. Come along and be inspired by the next generation of brilliant researchers in what will be a fast-paced and demanding communication challenge and an enjoyable evening. Everyone is welcome and you can have your say by voting for the People's Choice Award.





Short Stories from Tall Poppies:



A Night of Science



When: Wed 4 Sept, 6.15pm to 8.30pm

Where: Pacific Cultures Gallery, South Australian Museum, North Tce, Adelaide

Cost: \$10 Museum members; \$12 general audience

Bookings: Online at Eventbrite

More Info: programs@samuseum.sa.gov.au

This celebration of current South Australian science and research is presented by Inspiring South Australia and the South Australian Museum. Hear from some of our best and brightest young scientists, all winners of Young Tall Poppy Science Awards. Each Tall Poppy has three minutes to share their research story and take us on a fascinating journey of discovery. Subjects include converting waste into new polymers that capture pollution, producing new materials to produce hydrogen from water using only energy from sunlight, wound healing, brain inflammation, Antarctic sea ice and much more. The night is not over yet however! After the interval we invite some of our best science communicators to discuss the role and importance of science communication in contributing to a Pathway To Hope in this changing world. A Night of Science is not to be missed! Canapes will be served; drinks are available for purchase. Recommended for ages 12+





Wild Orchid Watch Field Trip

When: Sat 7 Sept, 10am to 1pm

Where: Moores Rd, Morialta Conservation Park

Bookings: katie.irvine@adelaide.edu.au or 0466 936 963

More Info: wildorchidwatch.org or [facebook.com/WildOrchidWatch/](https://www.facebook.com/WildOrchidWatch/)

Come along to learn about Australian native orchids and help us test the new Wild Orchid Watch app. Join members of the Native Orchid Society of South Australia (NOSSA) for a guided orchid walk. This is your opportunity to get involved with a national citizen science project!



The Heights Astronomical Observatory: Public Viewing

When: Sat 7 Sept, 8pm

Where: On the grounds of The Heights School, Augustus St, Modbury North

Cost: \$10 adult; \$3 child

More Info: assa.org.au

The Heights Observatory has two permanent observatory buildings housing large telescopes, plus a variety of other telescopes and imaging equipment. Join members of the Astronomical Society of South Australia to view the heavens, the Moon and its craters, stars, planets, nebulae and constellations. The evening will be dependent on weather conditions so check the website for any cancellation.





Ningaloo: Australia's Other Great Reef

 **When:** Sat 14 Sept, 7.30pm to 8.45pm

 **Where:** Adelaide Planetarium, Building P, Uni SA Mawson Lakes Campus

Cost: \$25 per person; bookings essential

More Info: adelaide.planetarium@unisa.edu.au

The evening comprises a full-dome immersive film plus a live talk on the history of the reef by hydrogeologist Ian Lewis. In the film, young marine scientist Anna Cresswell, aboard mini-submersible Odyssey, embarks on a remarkable voyage into the labyrinth of Western Australia's iconic Ningaloo Reef in search of its key to life. Framing Australia's remote Cape Range Peninsula, Ningaloo Reef is one of the longest fringing reefs on the planet. It is also listed as a World Heritage Site, one filled with unearthly coral formations and exotic marine life. Anna's mission is to witness the annual, synchronised, mass coral spawning. Studying this phenomenon may provide answers to the threat of climate change faced by coral reefs around the world.



"We Survived National Science Week" Celebrations!

 **When:** Wed 18 Sept, 6.00pm

 **Where:** The Duke of Brunswick Hotel, 207 Gilbert St, Adelaide

Cost: \$10 pp, FREE to everyone involved in running an event in Science Week

More Info: Rona Sakko on 0419 827 723 or rona.sakko@gmail.com

Bookings: Online at Eventbrite

Join the National Science Week SA Coordinating Committee and the SA branch of the Australian Science Communicators as we review the highlights of National Science Week. We'll discuss what went well (or not so well!), hear from event holders about their activities and discuss ways we can all contribute to make National Science Week in 2020 bigger and better than ever! An ideal networking opportunity for everyone involved in communicating science.



Cosmos of Ancient Egypt

When: Sat 28 Sept, 7.30pm to 8.30pm

Where: Adelaide Planetarium, Building P, Uni SA
Mawson Lakes Campus

Cost: \$25 per person; bookings essential

More Info: adelaide.planetarium@unisa.edu.au

What was the Ancient Egyptian view of the cosmos and how the world came into existence? What do we know about Egyptian constellations? In this talk Paul Curnow will introduce you to some of the cosmogony of Ancient Egypt. In addition, he will look at the significance of the night sky and what we know about it from an Ancient Egyptian perspective. Paul is regarded as one of the world's leading authorities on Australian Aboriginal night sky knowledge. For ages 16+.



Regional National Science



Little Bang Discovery Plus



When: Wed 24 July—Wed 11 Sept, 10.30am to 11.30am



Where: Function Room Clare Town Hall, 229 Main North Rd, Clare

Cost: \$20 refundable deposit for Discovery Box, to be returned at the conclusion of program

Bookings: Essential on 08 8842 3717 or [clare.](mailto:clare.library@plain.sa.gov.au)

library@plain.sa.gov.au

More Info: libraries.sa.gov.au/claregilbert

Junior scientists and their adult lab assistants will conduct new experiments to learn and explore the basics of science. Program is designed for children aged 3 to 5 years.



Hills Science Expo



When: Sat 10 Aug, 9.30am to 5pm



Where: Cleland Wildlife Park, 365 Mt Lofty Summit Rd, Crafers

Cost: Park entry fees apply

Bookings: trybooking.com/book/event?eid=523194&

More Info: ahsciencehub@gmail.com

Further details of this event are on p18.



Gondwana Tour at Mount Lofty



Botanic Garden



When: Sun 11 Aug and Sun 18 Aug, 10.30am to 11.30am

Where: Mount Lofty Botanic Garden, Lampert Rd, Crafers

Cost: \$10

Booking and More Info: botanicgardens.sa.gov.au/whats-on

Join our expert garden guides on a special insider tour of the Mount Lofty Botanic Garden. Plants originate from all over the world but are connected by 500 million years of heritage dating back to the days of the ancient supercontinent, Gondwana. Supported by a Big Science Adelaide grant

nce Week SA Activities

Monarto Woodland Birds

When: Sat 10 Aug and Sun 11 Aug (General Public)

Mon 12 Aug to Fri 16 Aug (Schools)

Sessions: 2-3 hours in morning or afternoon

Where: Frahns Farm, Frahns Farm Rd, Monarto

Bookings: Essential on 0407 180 921

or info@bior.org.au

More Info: bior.org.au

Woodland birds are declining across southern Australia. These declines are attributed to a lack of suitable habitat. In the Monarto region 35 year old woodland plantings now support many of these birds (honeyeaters, robins, flycatchers, treecreepers, finches etc.). BioR is working with scientists from the University of Adelaide to trap, band and release these birds so that their population structure, survival and movements can be documented. The public and school groups will have the opportunity to see how the birds are caught, to hold and then release them.

Supported by a National Science Week SA Grant

Andamooka Night Skies Tour

When: Sat 10 Aug, 7pm to 10.30pm

Where: Andamooka Historic Cottages, Opal Creek Boulevard, Andamooka

Cost: Gold coin donation

More Info: andamookaobservatory.com.au

We will be hosting a journey through the Andamooka night sky using naked eye astronomy and telescopes to observe the Earth's Moon, constellations, Jupiter and Saturn. We will be keeping an eye for the August Perseid Meteor Shower. Includes evening tour of underground opal and mineral museum, plus other activities.

Supported by a National Science Week SA Community Grant



Regional National Science



Stockport Observatory Star Party

-  **When:** Sat 10 Aug, 7pm to 10.30pm
 **Where:** Stockport Observatory, Observatory Rd, Stockport
More Info: assa.org.au
Check out further details of this event on p19.



Planetary Chemistry

-  **When:** Sun 11 Aug, 2pm to 3pm
 **Where:** Supper Room, Riverton Community Hall, Murray St, Riverton
Booking and More Info: merrill.thwaites342@schools.sa.edu.au
What elements are on the Moon? What's in the air? Find out about the chemical elements of our planets in this science show. Recommended for ages 5-17
Supported by a National Science Week SA Community Grant



Roxby's Mad Scientists

-  **When:** Mon 12 Aug to Fri 16 Aug, 3pm to 5pm
 **Where:** Community Youth Centre, Roxbylink, Richardson Place, Roxby Downs
More Info: communityboard@roxbydowns.com
Let's get children excited about science and inspire further interest in developing STEM skills. This science expo offers a range of hands-on fun and engaging activities. The variety of themes are designed to demonstrate that science is diverse and evident in everyday life.
Supported by a National Science Week SA Community Grant

nce Week SA Activities

Moorak Shoot for the Stars

When: Tues 13 Aug, 4.30pm to 6.30pm

Where: Moorak Primary School, Yells Rd, Moorak

More Info: misslibbyfae@gmail.com

Students from Pre-school to year 7 will be involved in creating an app that allows the use of a device to discover more about Space, Star Formations and Moon phases.



Clare Valley Science Spectacular

When: Tues 13 Aug – Fri 16 Aug, 10am to 5pm

Where: Clare Town Hall, 229 Main North Road, Clare

Bookings: 08 8842 3817 or clare.library@plain.sa.gov.au

More Info: claregilbertvalleys.sa.gov.au

This will be a week-long festival of science for the whole community. Events include the Starlab planetarium, science fair, science shows and screening of the inspiring documentary 'Inventing Tomorrow'. Big problems can be solved with STEM-based thinking. Be involved, engaged and part of the solution.

Supported by a National Science Week Grant



SCI-FI PI

When: Tues 13 Aug, 10.30am to 11.30am

Where: Port Lincoln Library, 2 London St, Port Lincoln

Bookings: 08 8621 2346 or ptlincolnlibrary@plcc.sa.gov.au

More Info: portlincoln.sa.gov.au/library

Join in a fun, socially interactive and intergenerational session. Funky fruit and raspberry pi – have fun with science and making music on fruit and vegetables using Makey Makey kits.



Regional National Science

Inventing Tomorrow: Film Festival

 **When:** Wed 14 Aug, Schools 10am to 11.30am,

 Open Community Session 7.30pm to 9pm

Where: Blyth Cinema, 15 Moore St, Blyth

Bookings: Essential 08 8842 3817 or [clare.](mailto:clare.library@plain.sa.gov.au)

library@plain.sa.gov.au

More Info: libraries.sa.gov.au/claregilbert

This documentary film follows six young scientists as they tackle some of the most complex environmental issues facing humanity today – right in their own backyard.

Supported by a National Science Week SA Community Grant

Pop up Starlab Planetarium

 **When:** Wed 14 Aug, 10am to 2.30pm

 **Where:** Clare Town Hall, 229 Main North Rd, Clare

Bookings: Essential as places are limited. 08 8842 3817 or clare.library@plain.sa.gov.au

More Info: libraries.sa.gov.au/claregilbert

Starlab Planetarium is coming to Clare! Starlab is a giant dome that simulates the night sky of the Southern Hemisphere. This pop-up planetarium experience will help spark curiosity in Space and other areas of science.

Clare Coding Club

 **When:** Wed 14 Aug, 3.30pm to 4.30pm

 **Where:** Clare Library, 33 Old North Rd, Clare

Bookings: Essential on 08 8842 3717 or clarelibrary@plain.sa.gov.au

More Info: libraries.sa.gov.au/claregilbert

Learn how to code with Scratch every second and fourth Wednesday of the month during school term. This is a fun, guided club that encourages computational thinking and problem solving. For students 8+.

nce Week SA Activities

Mobile Science Spectacular

When: Wed 14 Aug, 4pm to 5pm

Where: Two Wells Old Council Chamber, 61 Old Port Wakefield Rd, Two Wells

Bookings: library@apc.sa.gov.au

An after-school science show for junior/primary school aged children and their families. Demonstrating concepts of energy, pressure, critical thinking and combustion, there will be lots of loud noises, liquid nitrogen, explosions and a ride-on hovercraft.

Supported by a National Science Week SA Community Grant



Getting to Know the Locals

When: Thurs 15 Aug, 7pm to 10pm

Where: Ozone Hotel Kangaroo Island Conference Centre, Chapman Tce, Kingscote

Bookings: bartram@kin.on.net

More Info: kangarooislanddolphinswatch.com.au

Sea lions, sea dragons, sea urchins, sea grasses—and anyone else you might find in our waters! Celebrate the marine biodiversity in Kangaroo Island's pristine, unique waters on the Great Southern Reef. Scientists will give fascinating presentations and displays on their latest research and conservation programs.

Supported by a National Science Week SA Community Grant



Regional National Science Week

Foraging to Sciencing: Protecting our Fabulous Fungi

 **When:** Thurs 15 Aug, time tba

Where: Stirling Coventry Library, 63 Mt Barker Rd, Stirling

Bookings: j.packer@adelaide.edu.au to register your expression of interest

More Info: fungimap.org.au

Fungimap aims to protect Australia's native fungi. Let's talk about Adelaide Hills foraging! Who's doing it, and where? Where's it all going? What does it mean for our native flora and fungi? Why is it so popular? Share your stories about who's foraging.

Supported by a National Science Week SA Community Grant

Lunar Looker, Launcher, Lander and Landlord

When: Fri 16 Aug, 9.30am to 11am

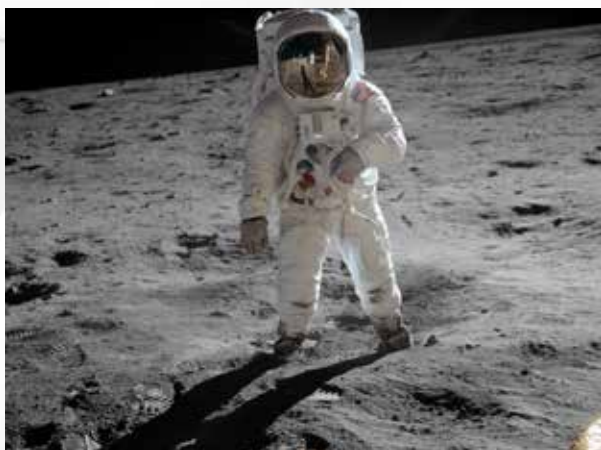
Where: St Michaels Lutheran Primary School, 6 Balhanna Rd, Hahndorf

More Info: dhall@stmichaels.sa.edu.au

Students will observe the lunar cycle during August then explore art, writing and science using their observations. Parents and community members will be invited to view the various creations and steps used to create them.



Science Week SA Activities



Stars in the Library

When: Fri 16 Aug, 3.30pm to 4.30pm

Where: Victor Harbor Library, 1 Bay Rd, Victor Harbor

Bookings: 08 8551 0730 library@victor.sa.gov.au
eventbrite.com.au/o/victor-harbor-public-library-13381143889

More Info: victor.sa.gov.au

To celebrate National Science Week and 50 years since the Apollo 11 mission, the Victor Harbor Library will be hosting Mobile Science Education and their StarLab. Experience the night sky in glowing detail in this portable planetarium.



SCINEMA International Science Film Festival @ Clare and Gilbert Valleys Library

When: Fri 16 Aug, 4pm to 6pm, and Sat 17 Aug, 10am to 1pm

Where: Clare Library, 33 Old North Rd, Clare

More Info: 08 8842 3817 or one.card.network/client/en_AU/claregilbertvalleys/

SCINEMA is the largest film festival in the southern hemisphere showcasing the best in science cinema from around the world.



Regional National Science



Festival of the Magpie at Cleland Wildlife Park

When: Sat 17 Aug and Sun 18 Aug, 9.30am to 5pm

Where: Cleland Wildlife Park, 365 Mount Lofty Summit Rd, Crafrers

Cost: Admission fees to the Park apply; activities are free with park entry

Bookings: clelandwildlifepark.sa.gov.au/plan-your-visit/fees

More Info: 08 8130 9016 or casey.voneinem@sa.gov.au

Further details of this event are on p43.



The Adventures of Mungo the Magpie

When: Sat 17 Aug and Sun 18 Aug, show times: 11am and 1pm. Cleland Wildlife Park: open 9.30am to 5pm

Where: Cleland Wildlife Park, 365 Mount Lofty Summit Rd, Crafrers

Cost: Admission fees apply to the Park, show is included

Bookings: clelandwildlifepark.sa.gov.au/plan-your-visit/buy-tickets

More Info: 08 8339 2444 or clelandwildlifepark.sa.gov.au

Further details of this event are on p44.



nce Week SA Activities

SCINEMA International Science Film Festival @ Natural Resources South Australia Murray Darling Basin



When: Sun 18 Aug, 12pm to 2pm

Where: 13-17 Bridge St, Murray Bridge

Bookings: mega-wrap-up.eventbrite.com.au

More Info: naturalresources.sa.gov.au/samurraydarlingbasin/get-involved/events

Contact venue for screening details. SCINEMA is a celebration of the power of the moving image to inspire the young, satisfy the curious, explain the baffling and ask the impossible.

MEGA Microbat, Mozzie & Movie Event



When: Sun 18 Aug, 2pm to 4.30pm

Where: Murray Bridge Town Hall, 13-17 Bridge St, Murray Bridge

Bookings: mega-wrap-up.eventbrite.com.au

More Info: naturalresources.sa.gov.au/samurraydarlingbasin/get-involved/events

Over the past two years the MEGA Murray-Darling Microbat Project has been investigating which microbat species are found in the SA Murray Darling Basin region. Find out what was learnt through their project and what you can do in the future to help the bats in your backyard. There will be activities for the kids and a community screening of the SCINEMA Science Film Festival 2019

Supported by a National Science Week SA Community Grant



Regional National Science Week



Public Outreach Astronomy



When and Where: see below



More Info: 0478 144 483 or akbar.astronomer@gmail.com

The Southern Cross Outreach Observatory Project (SCOOP) is a mobile computerised astronomical observatory designed and built to promote astronomy, particularly in regional communities. It is equipped with computerised telescopes for day time solar and night time stellar and planetary viewing. Experience the wonders of the heavens! During National Science Week the mobile observatory will travel to a number of regional areas for day time and night time viewing.

- Fri 23 Aug, 1.30pm to 9.30pm, Loxton High School, 1889 Bookpurnong Rd, Loxton
- Sat 24 Aug, 1.30pm to 9.30pm. Memorial Park, 3 Doon Tce, Jamestown
- Sun 25 Aug, 1.30pm to 9.30pm. Jubilee Park, Jenkins Ave, Whyalla Stuart

Supported by a National Science Week Grant



Science Week SA Activities



KI Screening of SIXTEEN LEGS Documentary

When: Fri 30 Aug and Sat 31 Aug

Where: Parndana Town Hall, 192 Wedgewood Rd, Parndana

Cost: Fri (Day School groups) free; Evening (Other Documentaries) Adult \$25, Child \$5

Sat: SIXTEEN LEGS and The Making of SIXTEEN LEGS - Adult \$25, Child \$5

Both nights: Adult \$40, Child \$10

Bookings: 0439 840 758 or sixteenlegs@bigpond.com or ticketbo.com.au

More Info: sixteenlegs.com

SIXTEEN LEGS is a nature documentary like no other. It tells the story of the world beneath our feet through six years of filming, over twenty five years of science research and hundreds of millions of years of evolution. A highlight of the festival will be a Q&A, with SIXTEEN LEGS filmmaker and scientist Dr Neil Doran and cave diver and joint 2019 Australian of the Year Dr Richard Harris as guest speakers.

Supported by a National Science Week SA Community Grant



Regional National Science Week SA Activities



Get Gold Fever in the Barossa Goldfields!

When: Sun 22 Sept, 9.30am to 4pm

Where: Bowden's Cottage, Goldfields Rd, Barossa

Cost: \$5 adult, \$3 child, \$15 family

More Info: communitywebs.org/

BarossaGoldfieldsHistoric/contact.html or

bgoldhs@gmail.com or Leonie 0413 331 598

The annual Open Day with the Barossa Goldfields Historical Society. Check out gold panning, mining displays, old gaol cell, guided walks, old tools and machinery, and endless Billy Tea and damper throughout the day. Bring a picnic, stay for the day!



Minnawarra Biodiversity

When: Sat 28 Sept—Wed 2 Oct, 9am to 3pm

Where: Minnawarra, Myponga

Cost: Adult \$10, Child \$5

Booking essential: 0419 842 667 or thefurlers@gmail.com

More Info: communitywebs.org/ScientificExpeditionGroup

Want something interesting to do in the school holidays? Try the Biodiversity Survey held at Minnawarra. See how the bush grows again after sheep and cows are fenced out. Help trap bush rats. Sort out the skinks. Record bats. Catch insects. Identify plants and much more. Come for one to four days.

Online

These are a sample of the online activities during National Science Week. More can be found at: scienceweek.net.au

The Aha! Challenge:

Test your creative brain for science

You know that feeling of 'aha'? It's that flash of insight you get when pieces of information fall into place, revealing a deeper meaning or understanding. It's a critical contributor to scientific, mathematical and creative discovery, and researchers are really keen to know how it changes over our lifespan. Does that feeling of excited discovery change over our life? Contribute to real scientific research from the comfort of your own home by participating in the ABC's National Science Week project 'The Aha! Challenge'. Participants will do a series of online tests designed to elicit insight and draw out creativity, helping scientists understand how the human brain works.

For details, visit the Science Week website at scienceweek.net.au.



UNSW Bragg Student Science Writing Prize

When: Mon 29 April – Tues 29 Aug

More Info: careerswithstem.com.au/bragg-student-science-prize

Are you a student writer in years 7 to 10? Want to win great prizes? Write a short essay on 'Not-so-smart technology'.

Create It Competition

When: Mon 29 April – Mon 30 Sept

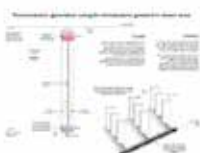
More Info: 100yearsea.com.au/create-it-comp

With engineers, anything is possible! To celebrate Engineers Australia 100th-year birthday, we encourage Australians to think about how engineering has helped them in all parts of their lives. Draw or make your creation and share it with us for the chance to win.



Shannon H

The 'Smart' Technology is not a smart person, but a smart machine. It is a machine that can think and do things that a person cannot do.



Rishi M

My project provides an off-grid power source for a house. It uses a wind turbine to generate electricity, which is stored in a battery bank. The battery bank can then power the house when the wind is not blowing.



Paul C

Smart cars are a new way of thinking about cars. They can drive themselves, and they can communicate with each other. This makes them much safer than regular cars.



Shawn D

The smartest person is a person who can think and do things that a person cannot do.



Jaspinder S

My project is a smart car. It can drive itself, and it can communicate with other cars. This makes it much safer than regular cars.



Triban F

I have thought about developing this technology from my point of view. I am a student, and I am interested in technology. I want to know what the future is like.

Online

The Great Aussie Bioquest 2019

When: Sat 10 Aug, 7am to 10.30pm

Bookings: Andrew Robinson 0458 111 148

More Info: info@questgame.com or questgame.com

You'll be amazed at what you discover when you download QuestaGame and join this year's Great Aussie BioQuest on your smartphone. Compete against other teams to map biodiversity – all while taking part in Australia's largest nationwide bioblitz.

The Space Show

When: Wed 14 Aug, 7pm to 8pm (AEST)

More Info: space.southernfm.com.au

A one hour radio program highlighting Australian Space Science on SouthernFM (FM88.3MHz).

Immersive Science III (SCIVR)

When: Sat 17 Aug, 1.30pm to 3pm

More Info: scivr.com.au

Catch the latest news in Black Holes with Alan Duffy and Rebecca Allen. Live Q and A. Download the free app and explore the Universe.



A sample of the many places of interest around the State, including Museums and Discovery Centres, that you might like to check out in National Science Week:

Art Gallery of South Australia

When: Open daily

Where: North Tce, Adelaide

More info: www.agsa.sa.gov.au

Daily guided tours, Tuesday lunchtime talks at 12.30pm, and a varied program of events throughout the year.

Botanic Gardens of South Australia

When: Open daily

Where: Adelaide, Mount Lofty, Wittunga

More info: www.botanicgardens.sa.gov.au

The Botanic Gardens of South Australia has three public estates. The Friends of the Gardens host informative walking tours. Adelaide: daily at 10.30am. Mount Lofty: every Thurs at 10.30am. Wittunga: every Tues at 10.30am

State Library of South Australia

When: Open daily

Where: North Tce, Adelaide

More info: www.slsa.sa.gov.au

Weekday tours at 11am & 2pm, bookings required. See items from the State Library's collection, including the heritage-listed Mortlock Chamber and the stunning Treasures Wall in the Spence Wing. Other monthly tours include: Behind the Scenes (care and repair); Your History Heartlands; and Salt in Your Eyes. Special events and talk series occur throughout the year.

The Royal Institution of Australia

Where: The Science Exchange, 55 Exchange Place, Adelaide

More info: riaus.org.au

RIAus hosts a range of activities including talks, discussions, events for schools, live-streamed events and the popular SCINEMA International Science Film Festival.

MOD.

When: Various times, Tues to Sun

Where: University of South Australia, 55 North Tce, Adelaide

More info: mod.org.au

MOD, at the University of South Australia, is a futuristic museum of discovery, a place to be inspired. MOD is a free science experience with dynamic and changing exhibitions, programs, talks, workshops and special events. MOD is purpose-built over 2 floors with 6 gallery areas and 2 studio spaces showcasing how research shapes our understanding of the world to inform the future.

South Australian Maritime Museum

When: Daily, 10am–5pm

Where: 126 Lipson St, Port Adelaide

Cost: Admission fees apply

More info: 8207 6255 or maritime.history.sa.gov.au

The museum houses permanent exhibitions such as Bound for South Australia, Tapestry of Treasures, Mosquito Fleet and much more. Special exhibitions are displayed during the year. Torrens Island Quarantine Station Tours run at various times. Visit the lighthouse, or go on a dolphin cruise.

Cleland Wildlife Park

When: Daily, 9.30am–5pm

Where: 365 Mount Lofty Summit Road, Crafrers.

Cost: Entry fees apply

More info: clelandwildlifepark.sa.gov.au

or 8339 2444

Guided walks, night tours, hands-on animal experiences, interpretative centre, educational school programs, keeper talks and more will help visitors to connect with animals in their natural environment.

Head of the Bight Visitors Centre

Where: Yalata

More Info: headofbight.com.au

Southern right whales calve in the waters of the Great Australian Bight each winter.

South Australian Whale Centre

When: Open daily

Where: 2 Railway Tce, Victor Harbor

Cost: Admission fees apply

More Info: www.sawhalecentre.com.au

The centre has skeleton displays, videos, interactive exhibits, 3D theatre and a kids' zone where you can dig for fossils and crawl through the belly of a giant squid.

Australian Arid Lands Botanic Gardens

When: Open daily

Where: Stuart Highway, Port Augusta

More Info: aalbg.sa.gov.au

There are more than 12km of walking tracks through the gardens, ranging from short, easy strolls to a 4.5km walk to the red cliffs overlooking the Gulf and Flinders Ranges.

The Migration Museum

When: Open daily

Where: 82 Kintore Ave, Adelaide

More Info: migration.history.sa.gov.au

This is a social history museum featuring the immigration and settlement history of South Australia. It maintains a permanent and a rotating collection. The Migration Museum – Italian Style runs until Nov 21. Special events and workshops occur throughout the year. Fees may apply for some events and exhibitions

Artlab Australia Tours

Where: 70 Kintore Ave, Adelaide

Bookings: Bookings are essential. 08 8207 7520

More Info: artlabaustralia.com.au/tours.php

Artlab offers tours to special interest groups with an involvement or interest in conservation and cultural heritage such as historical societies, GLAM organisations – allied galleries, libraries, archives, museums, affiliated research fields and relevant conferences or events. These tours are free of charge (but bookings are essential) and are held on the second and fourth Wednesdays of the month at 10am or 2pm.

Naracoorte Caves

When: Open daily

Where: Wonambi Visitors' Centre, New Caves Road, Naracoorte

Cost: Entry to the park is free but fees apply for cave tours and camping

More Info: environment.sa.gov.au/naracoorte/Home

Naracoorte has a system of 26 limestone caves, 4 of which are open to the public. The caves are a World Heritage site, recognising the significance of many fossil deposits, especially of Megafauna that died out 60 000 years ago.

Arid Recovery Reserve

Where: Borefield Road, Olympic Dam

Bookings: Essential at info@aridrecovery.org.au

More Info: www.aridrecovery.org.au

Arid Recovery is an ecosystem restoration initiative based in the South Australian Outback and dedicated to the restoration of Australia's arid lands. Visitors get up close to rare and endangered species in a natural arid zone. Home to the Burrowing Bettong.

Zoos SA

When: Open daily, 9.30am–5pm

Where: Adelaide and Monarto

Cost: Entry fees apply

More Info: www.zoossa.com.au

*Adelaide Zoo is the second oldest zoo in Australia and home to more than 2,500 animals. Nature's Playground is now open. Take a walk on the wild side and have fun with nature-inspired playground equipment. **Teddy Bear's Picnic: Sun 25 Aug** Monarto Zoo is a large open-range zoo about an hour's drive south of Adelaide. It is spread over 1,500 hectares and is home to more than 50 species of exotic and native mammals, birds and reptiles.*

Nature Walk through the Park: Sun 8 Sept

South Australian Museum

When: Daily, 10am-5pm

Where: North Tce, Adelaide

More Info: www.samuseum.sa.gov.au

The South Australian Museum is committed to making Australia's natural and cultural heritage accessible, engaging and fun for all ages. It holds collections of national and international significance, and is a leader in Australian Aboriginal heritage and scientific research. Fees apply for special exhibitions.

National Wine Centre

When: Daily, 9am to 6pm

Where: Corner of Botanic and Hackney Roads, Adelaide

More Info: wineaustralia.com.au

Take a self-guided Wine Discovery Journey, a state-of-the-art interactive wine experience. Special events are presented during the year.

Tandanya National Aboriginal Cultural Institute

When: 10am to 5pm, closed Public Holidays/Sundays

Where: 253 Grenfell St, Adelaide

More Info: tandanya.com.au

Tandanya is Aboriginal owned and managed. This multi-arts centre is a place to experience contemporary and traditional Aboriginal and Torres Strait Islander cultural expressions through visual and performing arts, music and story-telling.

Tate Museum

When: Mon - Fri, 9am to 5pm

Where: Mawson Laboratories, University of Adelaide, Adelaide

More Info: unicollections@adelaide.edu.au or 8313

3086 or adelaide.edu.au/uni-collections/unimuseums

The Tate Museum holds a wide range of minerals, rocks, fossils, meteorites and specimens that illustrate geological phenomena. Also includes display of material collected by Sir Douglas Mawson during his famous expeditions to Antarctica.

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WWW www.scienceweek.net.au



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inspiringsa.org.au

Bringing together science in South Australia



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