

national science week 2021

14–22 August 2021

A collation of events and
activities developed by the
South Australian community



Check out the latest information on all the events
- including a wide range of online events -
happening throughout National Science Week at:
www.scienceweek.net.au

Attending a National Science Week event? If so,
we are seeking your help so we can continue
to expand and improve the festival in South
Australia. All we ask is that you complete our
post-event survey after the event.



**INSPIRING
SOUTH
AUSTRALIA**
making science visible



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www.inspiringsa.org.au

The goal of Inspiring South Australia is to contribute to a society that values science, engages with scientific issues, encourages young people to pursue STEM careers and attracts national and international interest in science.



Message from the Minister for Innovation and Skills

The South Australian Government is pleased to support National Science Week in 2021.

This significant event provides an opportunity to ignite our community's passion for science, technology, engineering, mathematics and medicine (STEMM), and inspire people of all ages to explore and participate in the fascinating world of science.

This year's Science Week theme is 'Food: different by design' and provides an exciting opportunity for students – and the wider community – to explore the role of science in food, and learn about sustainable agriculture, food technology, and managing food waste.

Research and innovation are known key drivers of economic transformation. That's why the South Australian Government has developed a 10-year science and innovation strategy known as EXCITE, to grow business investment in research and development, drive innovation and boost productivity in South Australia.

As our world becomes more technologically advanced and automation becomes more extensive, traditional industries will continue to shift and evolve. This means the jobs of the future will increasingly rely on STEMM knowledge and skills. Now, more than ever, there is an opportunity to create a strong STEMM culture and empower young people with these skills so they can benefit from the jobs of the future.

National Science Week provides many opportunities, especially for young people, to grow their curiosity and appreciation of science so that one day, they may be one of many future Australian success stories.

I would also like to acknowledge those in the science community that make National Science Week such a success each year, often as volunteers. It is these educators, researchers and communicators who we commend for their passionate support of science engagement in South Australia.

I encourage you to participate in the events on offer and I hope you will continue to be inspired by the world of science.

*Hon. David Pisoni MP
Minister for Innovation and Skills*





Message from the Chief Scientist for South Australia

National Science Week is a brilliant opportunity to step into the world of science; to share in the stories that have changed our lives, and to learn about discoveries in the making that will support every aspect of our lives.

There will be events, debates, activities and vibrant discussions about the role of science and technology in our world, particularly in the face of challenges such as natural disasters, bushfires, and of course the pandemic.

We will also have the opportunity to understand the contribution of science, technology, engineering, mathematics and medicine (STEMM) in our day to day lives as National Science Week shines a spotlight on the role of food in our lives.

Since becoming Chief Scientist for South Australia, I have been inspired by the scientists and students I meet and their research that is carried out in so many different environments across our state—from fields, classrooms and laboratories, to clinics, oceans, and even in space. National Science Week connects us with these remarkable STEMM researchers, innovators and communicators and allows us to understand the work that puts us on the global stage.

National Science Week also reminds us just how well positioned our state is to develop the next generation of imaginative and creative young scientists who will deliver solutions to some of the most intractable problems faced by communities within and beyond South Australia. These are the talented leaders and professionals of the future who will make us proud to live in the State of Science.

I do hope you will join me and the thousands of South Australians who take part in this national event that connects us through the excitement of discovery and hands-on opportunities, giving us a glimpse into the exciting potential of science in the future.

*Professor Caroline McMillen AO
Chief Scientist for South Australia*





SCINEMA International Science Film Festival

When: Throughout August | **Where:** Various locations | **Cost:** Free
Register at: <https://scinema.org.au/> to host a screening

SCINEMA is the largest science film festival in the southern hemisphere, showcasing the best in science cinema from around the world. You can host your own public or private SCINEMA Community Screening for free during the month of August, whether it's at your school, library, your local pub or even your lounge room. All you need is a screen, computer, access to the internet and an audience (popcorn optional). Sample of public screenings:

Sun 8 Aug, 11am - 3pm: City of Unley Libraries
Wed 18 & Fri 20 Aug, 10am - 6pm: Clare Library
Sat 21 Aug, 10am - 5pm: Mt Gambier
Thurs 26 Aug, 6.30pm - 7.30pm: MOD. at UniSA, City
Sat 28 Aug, 6.30pm - 7.30pm: Murray Bridge

This National Science Week project is supported by the Australian Government.



Future Scientist Career Quiz

When: Sun 1 Aug - Tues 31 Aug | **Where:** Online | **Cost:** Free
More info: <https://sciences.adelaide.edu.au/science-week>

Scientists are humanity's frontline. Wherever answers are needed, they lead the charge - overcoming complex global challenges, solving real-world problems and developing solutions for the future. Incredibly, science is predicted to bring more human progress in the next 50 years than the previous 400 combined. Take the short quiz created by the University of Adelaide to discover your future career in science.

<https://www.scienceweek.net.au/event/future-scientist-career-quiz-2/>



Big Biofilm Hunt

When: Sun 1 Aug - Sun 12 Sept | **Where:** Online | **Cost:** Free
More info: <https://sciences.adelaide.edu.au/science-week>

Microbes are known to form communities and excrete a slime, called a "biofilm", that protects them from the environment. This project will produce an animated video to elucidate important microbiology and public health information in an engaging way. Also, a call to action will encourage viewers to participate in "The Big Biofilm Hunt", an activity to first find biofilms in, on or around us and then create a biofilm art piece.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/big-biofilm-hunt/>



SciVR – Naracoorte Seniors

When: Wed 4 Aug, 10am – 11am | **Where:** Naracoorte Public Library | **Cost:** Free
More info: <https://www.scivr.com.au/>

A special seniors event, supported by the ARC Centre of Excellence for Gravitational Wave Discovery (OzGrav) and Swinburne University of Technology. SciVR will take you on the hunt for things that go boom! Explore the universe and the origins of explosions in space. Receive a mini VR headset and chat with other people about space science.

<https://www.scienceweek.net.au/event/scivr-naracoorte-seniors/naracoorte/>



Art vs Science

When: Sat 7 Aug – Sun 29 Aug | **Where:** Moculta Soldiers Memorial Hall | **Cost:** Free

Science is the system of acquiring knowledge, and art is the expression of the knowledge.

Charles Tambiah is this year's guest artist and speaker. Charles is from the Australian National University in Canberra, where he is a Science-Art Academic and Professional Photographer.

<https://www.scienceweek.net.au/event/art-vs-science/moculta/>



Would I Lie To You?

When: Fri 13 Aug, 7pm – 9pm | **Where:** Rob Roy Hotel, Adelaide | **Cost:** Free
More info: <https://www.scipubadelaide.org>

Join the Superstars of STEM and Science in the Pub Adelaide at this fun and informative event. Can you tell scientific fiction from scientific fact? Can pigeons detect breast cancer? Do leopards roar? Are bananas actually berries? Astounding observations will be made to inform or to fool the audience. Grill the contestants to ferret out the truth in this evening brimming with facts, fiction and laughter.

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/would-i-lie-to-you-by-superstars-of-stem-and-science-in-the-pub-adelaide/adelaide/>



Science on the Street

When: From Sat 14 Aug | **Where:** MOD., North Tce, Adelaide

Cost: \$30 (inclusive of morning or afternoon tea)

More info: <http://mod.org.au>

Where is the science in our city? You might be surprised at how many significant scientific sites we have in Adelaide. Join the MOD. team as they venture through the heart of Adelaide to discover the science behind the city. This tour will highlight selected STEM sites, while showcasing innovative research currently underway.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/walking-science/adelaide/>



A Day of Science at Walkerville

When: Sat 14 Aug, 10am - 1pm | **Where:** Walkerville Civic and Community Centre

Cost: Small charge (\$2) for some sessions, other sessions free

More info: <https://www.walkerville.sa.gov.au/community/events/events/national-science-week>

To celebrate National Science Week, Walkerville Library is inviting children to a special Saturday session where they can participate in a range of activities. Sessions include: virtual reality, sustainability and "perfect poo" workshops, decorating garden pots with 3D pens, milk marbling experiment and more.

<https://www.scienceweek.net.au/event/a-day-of-science-at-walkerville/gilberton/>



Donut Shooting Robots - Feed your Senses

When: Sat 14 Aug, 11am - 4pm | **Where:** Adelaide Showground, Wayville | **Cost:** Free

More info: <https://www.roboroos.org.au>

Feed your competitive spirit and thirst for scientific and engineering knowledge. Participate in robot competitions (enter your robot); workshops (demystifying robots for adults and how to build a robot in 9 complicated steps); and interactive robot-driving in an expo-type setting. Workshops will run throughout the day - one stream for adults and one for students.

This National Science Week project is supported by the Australian Government.

<https://www.scienceweek.net.au/event/donut-shooting-robots-feed-your-senses/goodwood/>



Adults Only Zone: Demystifying and Decoding Robots

When: Sat 14 Aug, 12pm – 3pm | **Where:** Adelaide Showground, Wayville | **Cost:** Free
More info: <https://www.roboroos.org.au>

Are your kids waaaaaay ahead of you when it comes to coding, robotics and technology? Interactive coaching sessions, conducted by the RoboRoos, will provide a greater understanding of robot design, coding, fabrication and construction, and final testing. The sessions will include “hands-on”, so that adults reeeeeeeally get it. RoboRoos will also record and publish the sessions on their YouTube channel.

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/adult-only-zone-demystifying-and-decoding-robotics/goodwood/>



Stockport Observatory Winter Star Party

When: Sat 14 Aug, 6pm – 9.30pm | **Where:** Stockport Observatory, Stockport | **Cost:** Free
More info: <http://assa.org.au/>

The Astronomical Society of South Australia invites you to spend an evening under the stars with the most experienced sky watchers in our State. View the moon, planets, nebulae, star clusters and galaxies on multiple screens using a suite of innovative imaging technologies. Attendees will take away a unique and truly memorable experience of our universe. The Society's Stockport Observatory (housing its 3 large telescopes) is located in the small town of Stockport approx 80kms north of Adelaide.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/stockport-observatory-winter-star-party/stockport/>



Space School for Kids

When: Sat 14 Aug & Sat 21 Aug, 10am – 2pm | **Where:** Adelaide Planetarium, Mawson Lakes
Cost: \$15 per child
More info: <https://www.unisa.edu.au/connect/galleries-museums-and-centres/adelaide-planetarium/>

4-hour fun-filled space sessions for kids aged between 7-12 years. Attendees will join highly experienced astronomers to learn about the stars and make a constellation. In the Planetarium they can marvel at the immense scale of the universe and observe the breathtaking beauty of the night skies projected on the eight-metre domed ceiling, as well as watching a full dome movie. Then they will create their own Solar System.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/space-school-for-kids/mawson-lakes/>



Amazing Robotic Animals

When: Sat 14 Aug, 10.30am – 12.30pm | **Where:** The Mawson Centre, Mawson Lakes

Cost: \$10 child (ages 9 – 12)

More info: <https://www.eventbrite.com.au/e/national-science-week-2021-discover-bionic-animals-tickets-162228962193>

Discover the world of bionic technology and learn how robots can mimic animal movements. This interactive session will give young people the opportunity to solve problems using bionic methods in a creative and uncomplicated way – by building a bionic fish! Participants will gain an understanding of this innovative bionic technology and the science behind it.

<https://www.scienceweek.net.au/event/amazing-robotic-animals/mawson-lakes/>



STEM Fast Track ESTEAM Summit

When: Sat 14 Aug, 11.45am – 6pm | **Where:** Lot Fourteen, North Tce, Adelaide

Cost: \$10 individual entries; \$20 groups of 2-3

More info: <https://www.stemfasttrack.com.au/summit>

ESTEAM Summit is a competition (run from 1 July to 8 August) where the brightest young minds around the State come up with the solutions to the world's problems using Entrepreneurship, Science, Technology, Engineering, Art (and Design) and Mathematics.

The top 5 finalists will present their solutions at this summit to a panel of judges for the chance to win the prize for their division.

<https://www.scienceweek.net.au/event/stem-fast-track-esteam-summit/adelaide/>



Habitat Hedgerows

When: Sat 14 Aug, 3pm – 4.30pm | **Where:** Brownhill Creek | **Cost:** Free

More info: j.packer@adelaide.edu.au

What do native bandicoots and berries have in common? And how can you help both? At this hands-on workshop you will assist in creating the first habitat hedgerow in Brownhill Creek, home to a breeding subpopulation of endangered southern brown bandicoots. Learn the best way to start your own habitat and keep yours bursting with wildlife, and share what happens to help bandicoots.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/habitat-hedgerows/brownhill-creek/>



Wildlife Nightlife

When: Sat 14 Aug, 5.30pm – 7pm and 7.30pm – 9pm | **Where:** Brownhill Creek

Cost: \$35 per person; 12 & under free

More info: https://www.airbnb.com.au/experiences/2763996?guests=1&adults=1&s=67&unique_share_id=a7e87b48-6123-438d-a76a-0d5e20fe18a3

Discover the wild nightlife of one of the world's wildest cities – Adelaide's marvellous mammals! You'll wander the Brownhill Creek nature trails by torchlight, with University of Adelaide's researchers and students sharing the best wildlife spots. Learn about the discoveries made about endangered bandicoots, antechinus, bats and possums, and how you can help to protect them.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/wildlife-nightlife/brownhill-creek/>



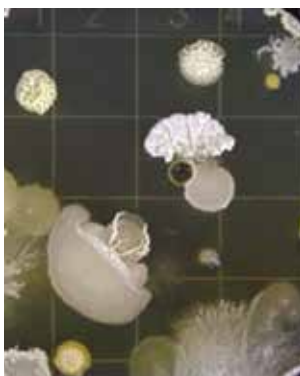
Where do you go to my lovelies?

When: Sat 14 Aug – Sun 22 Aug | **Where:** Online | **Cost:** Free

More info: <https://kangarooislanddolfinwatch.com>

Kangaroo Island / Victor Harbor Dolphin Watch – a longitudinal Citizen Science dolphin research project – has been monitoring Common Bottlenose dolphins and Shortbeaked Common dolphins since 2005. Community members can assist by contributing images showing where the dolphins are in the Kangaroo Island, Victor Harbor or the Fleurieu Regions so their important habitats can be identified.

<https://www.scienceweek.net.au/event/where-do-you-go-to-my-lovelies/>



Yeast-Catchers Needed: Join the Hunt

When: Sat 14 Aug – Tues 31 Aug | **Where:** Online | **Cost:** Free

More info: <https://awri.compusensecloud.com/edu/login.aspx?t=e6981e3d-d1d3-4ef4-a098-57b7c8bf7d3b>

This virtual event aims to educate students and teachers about microbiology and genetics while outlining potential participation in a four-year Australia-wide hunt to catch and isolate yeast from across the country. Conducted by the Australian Wine Research Institute, registration will grant access to virtual content, hands-on demonstrations and the opportunity to schedule a live Q&A session with scientists in the field.

<https://www.scienceweek.net.au/event/yeast-catchers-needed-join-the-hunt/>



Soil Your Undies!

When: Sat 14 Aug – Mon 4 Oct | **Where:** Online / Murraylands and Riverland landscape region

Cost: Free

More info: <https://www.landscape.sa.gov.au/mr/get-involved/events>

Calling all farmers, students and gardeners alike! You are invited to bury your undies ... to find out just how active your soil biology is. Participants will be provided with undies to bury, then exhume after 8 weeks and send back for testing. They will also receive information on improving their soil health and function for enhanced sustainability.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/soil-your-undies/>



Taste and Explore the Future of Food with Post Dining

When: Sun 15 Aug, 10.30pm – 12.30pm and 1pm – 3pm | **Where:** The Joinery, Adelaide

Cost: \$13 + booking fee (adults), \$11 + booking fee (concession)

More info: <https://www.post-dining.com/about>

Discover the future of food in a tasty and playful workshop exploring what and how we might be eating by the year 2050 in Australia. Take a deep dive into four possible future worlds which explore the themes of Growth, Restraint, Catastrophe and Transformation – with plenty of tasty treats along the way. You'll learn about native food from First Nations perspectives, discover the benefits of edible insects, measure the water footprint in our foods, and test your knowledge about food waste. Take-home gifts and resources included. Suitable for ages 15+

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/workshop-taste-explore-the-future-of-food-with-post-dining/adelaide/>



Roxby Mad Food Scientist

When: Mon 16 Aug – Fri 20 Aug, 3pm – 5pm | **Where:** Roxby Downs Community Youth Centre

Cost: Free

More info: <https://www.roxbydowns.sa.gov.au/community/youthservices/youth-events-2021>

Aimed at children and youth, participants will be able to explore a range of food-related experiments and activities that will include safely-managed explosions, polymers, acids, bases and pH indicators, mixes and emulsifiers, and a solar oven. Those with an appetite for adventure will also have the chance to try an alternative protein source.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/roxby-mad-food-scientist/roxby-downs/>



Lone Lens on Science

When: Mon 16 Aug, 4pm – 6pm | **Where:** SAHMRI, Adelaide | **Cost:** Free
More info: <https://sahmri.org>

Event comprises an interactive photographic exhibition and scientific seminar that visually represents a day in the life of one of SAHMRI's researchers, neuroscientist Dr Cedric Bardy. His field of science centres on the use of a newly-patented innovation which enables his team to create 'brain avatars' by reverse-engineering stem cells from human skin cells. This means a range of drugs can be tested on the avatars, knowing that any response elicited is highly likely to be the same if administered to the person themselves.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/lone-lens-on-science/adelaide/>



Future Thinkers at Lot Fourteen: The Science of Space

When: Tues 17 Aug, 4pm – 6pm | **Where:** Lot Fourteen, North Tce, Adelaide | **Cost:** Free
More info: <https://lotfourteen.com.au/events>

Lot Fourteen is an innovation precinct and collaborative ecosystem making a global impact by accelerating innovation, entrepreneurship, research, education, culture and tourism. This series of 3 forums will bring together some of our leading minds to tackle key focus areas about how we are shaping the future. Expert panellists include SA's Chief Scientist and Chief Entrepreneur.

The first forum, Science of Space, is presented in partnership with the Australian Space Agency (including the Australian Space Discovery Centre) and SmartSat CRC.

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/future-thinkers-at-lot-fourteen-the-science-of-space/adelaide/>



Young Explorers: Space

When: Mon 16 Aug to Fri 20 Aug, 10.15am – 11.00am and 11.15am – noon each day
Where: The South Australian Museum, Adelaide | **Cost:** \$10 per child
More info: <https://www.samuseum.sa.gov.au/>

Take a journey to outer space! Join the Young Explorers, the Museum's popular early-years program for 3-to-5 year olds. This program is an interactive experience inspired by the stories, objects and spaces of the South Australian Museum. Experienced facilitators use play experiences to engage the senses, incorporating story, song, movement, rhyme, observation, and exploration in each session.

<https://www.scienceweek.net.au/event/young-explorers-space/adelaide/>



Food Science with Moorak

When: Tues 17 Aug, 4.30pm – 6.30pm | **Where:** Moorak Primary School | **Cost:** Free

The Year 5–7 students at Moorak Primary School are organising a Science Fair Night for the local community. Hands-on activities include: recycling, edible slime, lava lamps, using food ingredients to blow up balloons, magic tricks and making electricity.

<https://www.scienceweek.net.au/event/food-science-with-moorak/moorak/>



Creating Zoo Homes – do try this at home!

When: Tues 17 Aug, 5.30pm – 6.30pm | **Where:** Adelaide Zoo | **Cost:** Free

More info: <https://www.adelaidezoo.com.au/event/creating>

A key component of an animal's welfare is tied to its immediate surroundings, so creating the perfect homes for the animals in Zoos SA's care takes a lot of planning, care, science and species-specific knowledge. Join dedicated staff for a discussion about how they design animal exhibits to support positive welfare and encourage and accommodate the animals' wild instincts and behaviours. Hear from experts who design animals' habitats and learn how to apply the same important principles to your pets at home.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/creating-zoo-homes-do-try-this-at-home/adelaide/>



Future Thinkers at Lot Fourteen: The AI Revolution

When: Wed 18 Aug, 4pm – 6pm | **Where:** Lot Fourteen, North Tce, Adelaide | **Cost:** Free

More info: <https://lotfourteen.com.au/events>

This second event from the Future Thinkers at Lot Fourteen showcases the latest developments in the AI Revolution. Presented in partnership with the Australian Institute for Machine Learning (AIML).

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/future-thinkers-at-lot-fourteen-the-ai-revolution/adelaide/>



Royal Society Showcase Science

When: Wed 18 Aug, 6pm – 8pm | **Where:** SA Museum | **Cost:** Free

More info: <http://www.rssa.org.au/>

The Royal Society “Show Case Science” aims to celebrate and promote to the public the diverse research members undertake to advance knowledge in SA. The event will:

- “**Show**” examples of cutting-edge and impactful research,
- Make a “**Case**” for science in our society, and
- Have a dialogue on the future of “**Science**” in SA.

The format will be a combination of live, high-energy, 3-minute lightning talks presenting research and arguments for why we need science, followed by question time and a panel debate, with opportunities for informal exchanges between scientists and the public.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/royal-society/adelaide/>



Clare Spectacular Science Fair

When: Thurs 19 Aug, 10.45am – 11.30am and 1.45pm – 2.30pm | **Where:** Clare Town Hall

Cost: Free

More info: <https://www.claregilbertvalleys.sa.gov.au/library>

The Clare Library Regional Science Fair includes both a science fair and 2 science shows. The first show is the amazing science of bubbles with bubble-ologist Marty McBubble who is the world record holder for creating the largest bubble. Then Dr Quark will explore the science and forces behind circus tricks as he performs feats of unicycling, juggling, and plate spinning.

<https://www.scienceweek.net.au/event/clare-spectacular-science-fair-7/clare/>



Comparing Apples to Apples in Hahndorf

When: Thurs 19 Aug, 2.30pm – 4pm | **Where:** St Michael's Lutheran Primary School, Hahndorf

Cost: Free

More info: <https://www.stmichaels.sa.edu.au>

This will be an apple-lot-o-fun as parents and community members explore apples. Science stations will include hands-on experiments comparing different varieties, cooking and preserving apples, creating apple inventions and designing ways to use all parts of the apple.

<https://www.scienceweek.net.au/event/comparing-apples-to-apples-in-hahndorf/hahndorf/>



Future Thinkers at Lot Fourteen: The Cyber Frontier

When: Thurs 19 Aug, 4pm – 6pm | **Where:** Lot Fourteen, North Tce, Adelaide | **Cost:** Free
More info: <https://lotfourteen.com.au/events>

This is the 3rd in the series of forums from the Future Thinkers at Lot Fourteen, this time showcasing the topic of The Cyber Frontier. Presented in partnership with the Australian Cyber Collaboration Centre (A3C).

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/future-thinkers-at-lot-fourteen-the-cyber-frontier/adelaide/>



Wild homes – reintroducing and protecting species in the wild

When: Thurs 19 Aug, 5.30pm – 6.30pm | **Where:** Adelaide Zoo | **Cost:** Free
More info: <https://www.adelaidezoo.com.au/event/wildhomes/>

It takes hard work, strong partnerships and serious science to both return species to places where they have become extinct and to prevent species from going extinct in the first place. Join Zoos SA's Conservation Manager as she explains how they go about protecting, breeding and reintroducing species back into the wild.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/creating-zoo-homes-do-try-this-at-home-2/adelaide/>



The Science and Science-Fiction of Space Travel

When: Thurs 19 Aug, 5pm – 8pm | **Where:** Ancient World, Hindley St, Adelaide | **Cost:** Free
More info: ancientworld5000@gmail.com

This event features Dr Patrick Neumann (Neumann Space) who will explore topics of space travel and unravel the science behind emerging technologies while exploring differences and similarities between science and science-fiction. Patrick will be joined by space archaeologist Associate Professor Alice Gorman and space medicine researcher Vienna Tran.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/the-science-and-science-fiction-of-space-travel/adelaide/>



Science @ Urrbrae

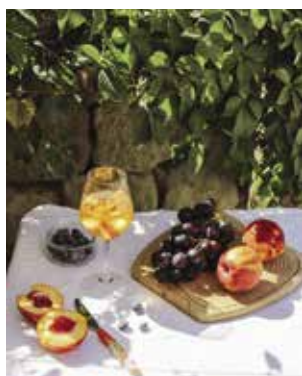
When: Thurs 19 Aug & Fri 20 Aug, 9.30am – 2.30pm | **Where:** Urrbrae Agricultural High School

Cost: Free

More info: <https://www.urrbraehs.sa.edu.au/>

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

<https://www.scienceweek.net.au/event/science-urrbrae/netherby/>



The Science of Flavour

When: Fri 20 Aug, 5pm – 8pm | **Where:** Ancient World, Hindley St, Adelaide | **Cost:** Free

More info: ancientworld5000@gmail.com

Hear from Associate Professor Susan Bastian about the science behind how we taste, what is it that makes up flavours, and how people experience these differently. Susan will be joined by a beverage expert and a chef to give their unique perspectives on beverages and food. Sample tasting will be included, as well as a Q & A session to allow the audience to engage with the speakers and satisfy not only their tastebuds, but their curiosity.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/the-science-of-flavour/adelaide/>



Zoodle in the Pub

When: Fri 20 Aug, 6pm – 7pm | **Where:** Rob Roy Hotel, Adelaide | **Cost:** Free

More info: Gerd.winter@me.com

After a sell-out performance at the Adelaide Fringe, Zoodle in the Pub returns with another show that is about having fun while finding out more about our wildlife. Every week, videos of Australian animals go viral on social media, from barking magpies, koalas chasing quad bikes and emus running amok. But rarely is there information to help explain what these animals are actually doing. Well-known local comedian and ABC radio personality Eddie Bannon and Australian wildlife-guru Chris Daniels will mull over the science behind popular clips of iconic Australian species.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/zoodle-in-the-pub/adelaide/>



AI IoT Science Spectacular 2021

When: Fri 20 Aug, 6.30pm – 9pm | **Where:** Braggs Lecture Theatre, University of Adelaide
Cost: Free

The public is invited to a science arena of stunning spectaculars and exciting discoveries revolving around the themes of Artificial Intelligence (AI) and the Internet of Things (IoT). From nanoscale biophotonics to AI object recognition in diagnosing diabetes and early detection of skin cancers, join in the live and interactive demonstrations, including an AI IoT Drone that can gather data remotely.

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/ai-light-science-spectacular-2019-2/adelaide/>



Makers after Dark @ Makerspace Adelaide

When: Fri 20 Aug, 6.30pm – 9.30pm | **Where:** Makerspace Adelaide, Franklin St, Adelaide
Cost: Free
More info: <https://makerspaceadelaide.org/>

This is a show-and-tell by selected Makers who will demonstrate what is under the hood of their creations and inventions, from how you build giant smoke ring generators, to musical cosmic ray detectors and conductive thread fashion. Using the range of sophisticated digital and analog-making resources at Makerspace's disposal, participants will be able to go away with an artefact they have made or personalised.

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/makers-after-dark-makerspace-adelaide/adelaide/>



Night Lab: Metamorphosis

When: Fri 20 Aug, 6pm – 10pm | **Where:** The South Australian Museum | **Cost:** \$39 per person
More info: <https://www.samuseum.sa.gov.au/>

Come for a night of transformation. Think caterpillar into butterfly, grapes into wine, and bugs into food in an evening of creepy, crawly, spiky, slimy, bugtastic fun. Confront fears and phobias, challenge yourself to try something new, and learn about the secret and not-so-secret lives of insects. Hopefully puns don't bug you because this evening should be un-beelievable fun. Prizes on offer for the best entomological ensembles of the night. For ages 18+. No larvae or pupae allowed, adult themes and occasional gnatty language.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/night-lab-metamorphosis/adelaide/>



Science at the Edge of Consciousness

When: Fri 20 Aug, 7pm – 9pm | **Where:** Star Theatres, Hilton | **Cost:** \$24 + booking fees
More info: <http://www.edgeofconsciousness.science>

What lies beyond the edges of awareness? Come on a trip through ancient and modern techniques of consciousness alteration. Join Dr Vince Polito of Macquarie University to discover what altered states can teach us about the inner workings of our brains and minds.

<https://www.scienceweek.net.au/event/science-at-the-edge-of-consciousness-adelaide/hilton/>



Seeing Things Differently

When: Fri 20 Aug, 9am – 3pm (school groups) and Sat 21 Aug, 10am – 4pm (general public)
Where: Tonsley Innovation District | **Cost:** Free
More info: <https://micro-x.com/>

How does X-ray imaging work? How is it different to photography? How will it change in the future? Visit Adelaide's Micro-X factory, which develops and produces next generation X-ray imaging equipment incorporating innovative design and carbon nanotube technology. Join guided tours around the Tonsley Innovation District and participate in photography workshops and other science-related activities. Learn more about how innovation and 'Seeing Things Differently' can lead to technological advancement across various industries.

This National Science Week project is supported by the Australian Government.

<https://www.scienceweek.net.au/event/seeing-things-differently/tonsley/>



Night Lab: Backyard Wildlife Habitat for Native Bees and Other Critters

When: Sat 21 Aug, 10am – 1pm | **Where:** University of Adelaide, North Terrace | **Cost:** Free
More info: <https://biologysocietysa.com/index.html>

Interested in bees? A nature lover? Come along and learn about the diversity of native bees and insects, and what you can do to support them. Participants will learn how to build a habitat for native bees (and insects); attract native bees to their patch; manage their habitat and patch; and gain the skills to ID native bee and other insect species they might expect to find with their new installation.

<https://www.scienceweek.net.au/event/backyard-wildlife-habitat-for-native-bees-and-other-critters/adelaide/>



Campbelltown Library Robot Day

When: Sat 21 Aug, 9.30am – 2pm | **Where:** Campbelltown Public Library | **Cost:** Free
More info: <https://www.campbelltown.sa.gov.au/>

There is plenty to enjoy on Robot Day at the Campbelltown Library. A free family event with robots, VR experiences, a chance to drive robots built by robotics' clubs, micro-computing displays, CAD workshops & more. Rotary sausage sizzle and a coffee van will be there on the day. Bookings required.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/campbelltown-library-robot-day/newton/>



SciVR – Port Adelaide Enfield

When: Sat 21 Aug, 10.30am – 11.30am | **Where:** The Parks Library, Angle Park | **Cost:** Free
More info: <https://www.scivr.com.au/>

The Universe is waiting to be discovered. SciVR will take you on a hunt out to Mars and then into the Universe, tracking explosive events as they occur. Includes a live-stream with Prof Alan Duffy and Dr Rebecca Allen, astronomers and science communicators at Swinburne University of Technology. Receive a free mini VR headset at the event. Download the free app and explore the universe: www.scivr.com.au

<https://www.scienceweek.net.au/event/scivr-port-adelaide-enfield/angle-park/>



Urrbrae Wetland Open Day

When: Sat 21 Aug, sessions between 11am–4pm | **Where:** : Urrbrae Wetland, Netherby | **Cost:** Free
More info: <http://www.urrbraewetlandlc.org/contact-us.html>

Experience some of the scientific aspects of this urban, artificial wetland. The day will showcase a series of interactive workshops hosted by Urrbrae students that focus on the natural environment and sustainability, including fish, turtles, reptiles, invertebrates, plants, human impacts and Indigenous perspectives.

<https://www.scienceweek.net.au/event/urrbrae-wetland-open-day-2/kingswood/>



Oliphant Science Awards Open Day

When: Sun 22 Aug, 12pm – 4pm | **Where:** Festival Functions, Findon | **Cost:** Gold coin donation
More info: http://www.oliphantscienceawards.com.au/2021_event_information/open_day

Come and experience the fun and magic of science in action where all prize-winning projects from the 2021 competition will be on display. The afternoon will feature spectacular science shows, including presentations by Professor Flint, Bright Sparks Entertainment, Nature Education Centre and Nitro Nat. Also, get hands-on with the Come & Try stations from TechSpace Learning.

<https://www.scienceweek.net.au/event/oliphant-science-awards-open-day/findon/>



Plant Science Safeguarding Our Future Food Security

When: Sun 22 Aug, 10am – 12.30pm | **Where:** : Waite Campus, University of Adelaide | **Cost:** Free
More info: <https://www.thewaite.org/event/plant-science-safeguarding-our-future-food-security-science-week-event/>

The Australian Society of Plant Sciences and the School of Agriculture, Food and Wine, University of Adelaide, presents research aimed at feeding the world in 2050. This event comprises a series of short, fun and engaging talks and tours at the Waite Campus to explain the pivotal role plant scientists and agriculturists play in feeding and clothing us all. Learn about current research and how it will help to meet the challenges posed by a growing world population and a changing climate.

<https://www.scienceweek.net.au/event/plant-science-safeguarding-our-future-food-security/urrrbrae/>



Spines, Scats and Six Legs: exploring echidnas, poop and insects on Kangaroo Island

When: Sun 22 Aug, 10am – noon & 2pm – 4pm | **Where:** KICE Parndana Campus | **Cost:** Free
More info: <https://www.eventbrite.com.au/e/spines-scats-and-six-legs-tickets-161717365995>

This project will involve the Kangaroo Island community in two citizen science projects focussing on the KI echidna and insect communities. It will be a fun day of talks and activities led by leading researchers. Topics include the unique biology of echidnas, the innovative approaches of combining science outreach with molecular biology for echidna conservation research, and the incredible world of parasitoid wasps, as well as insect taxonomy and genetic barcoding.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/from-echidnas-to-insects-on-kangaroo-island/seddon/>



Sustainable Science

When: Sun 22 Aug, 11am – 3pm | **Where:** Founders Reserve, Valley View | **Cost:** Free
More info: <http://www.refreshingmemories.com.au>

Activities will take place along the Dry Creek area, with a particular focus on practical recycling and waste management to ensure the creek is safe from microplastics and other rubbish. A range of activities will include: endemic plant potting and garden advice; water chemistry; engineering challenges; AUSMAP surveys; and how to build a low cost, waste sorting station for the home. The event will also be used to launch the Dry Creek Augmented Reality Experience, with the unveiling of QR codes at six locations along the creek.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/sustainable-science/valley-view/>



Science in Football

When: Sun 22 Aug, 12pm – 4pm | **Where:** Adelaide Oval | **Cost:** Will require ticket to the AFL game
More info: <https://www.afc.com.au/community/programs/STEMfooty>

Science in Football will be held at the last home game of the Adelaide Crows Football Club at Adelaide Oval. The event will offer families the chance to engage in practical science activities, begin the discussion around the application of STEM in AFL, and learn about potential career pathways. There will be a designated STEM area where families can explore the STEMfooty Science practical activities run by the Adelaide Crows Foundation and supported by Gleeson College STEM students.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/science-in-football/north-adelaide/>



Drainpipe Dragsters

When: Sun 22 Aug, 12.30pm – 2pm | **Where:** Dock 2, Port Adelaide | **Cost:** \$20
More info: heard.14.au@gmail.com

Suitable for ages 6 to 12. Participants will assemble small model vehicles from supplied kits, then race their vehicles on the multi-lane PVC-pipe dragstrip. Each vehicle will carry a numbered flag and, after participants have had several practice races, numbers will be drawn from a hat to select the competing vehicles for each race. Participants will take their vehicles home to enjoy on any flat surface.

<https://www.scienceweek.net.au/event/drainpipe-dragsters/port-adelaide/>



My Science Rulz, Your Science Droolz

When: Tues 24 Aug, 7pm – 9pm | **Where:** The Gov, Hindmarsh | **Cost:** \$5 adult; under 18 free
More info: <https://www.eventbrite.com/e/my-science-rulz-your-science-droolz-tickets-162647999545>

What science do YOU think is best? Join in a fun night of science and cheeky debate between four teams representing different types of exciting STEM fields: palaeontology, astronomy, maths, and neurogenetics. Each team of leading researchers and science communicators will put their case as to why their science rulz, while making hilarious digs at the other teams to convince you that their science droolz. Guaranteed to be a night of laughter while learning from the best in their fields. Who will come away the champion? Who will be able to confidently say they their science RULZ?! You get to be the decider. This event is perfect for anyone over the age of 14.

<https://www.scienceweek.net.au/event/my-science-rulz-your-science-droolz/hindmarsh/>



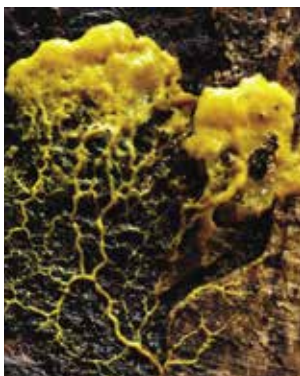
Innovation in Science & Entrepreneurship: Adelaide Masterclass

When: Thurs 26 Aug, 10am – 3pm | **Where:** Hetzel Lecture Theatre, State Library of South Australia
Cost: Free
More info: www.ase.edu.au

The Australian School of Entrepreneurship (ASE) will deliver a full-day masterclass which is open to young people aged 16 to 24 years old. Participants will hear from inspiring guest speakers and industry leaders, network with like-minded entrepreneurial young people, and participate in an interactive and informative ideation workshop that will involve identifying local problems and brainstorming micro-business solutions.

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/innovation-in-science-entrepreneurship-adelaide-masterclass/adelaide/>



Into the Slimelight

When: Thurs 26 Aug, 6pm – 7.30pm | **Where:** MOD., North Tce, Adelaide
Cost: \$20 general; \$15 concession
More info: <http://www.mod.org.au>

Are brains overrated? There's life that can solve mazes and tell time without a single brain cell. Welcome to the world of slime moulds, single celled super organisms capable of surprisingly complex behaviour. Join in an evening of mould, film and food as you taste, feel, watch and listen your way into the micro world of mould. Includes cheese, a drink and a surprise to take home.

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/into-the-slimelight/adelaide/>



This Show is NOT Rubbish!

When: Fri 27 Aug, 6pm – 7.30pm | **Where:** Port Augusta Secondary School | **Cost:** Free
More info: cliffonsota@gmail.com

A one-night show opening with a Welcome to Country and cultural 'caring for country' dances by local indigenous dance group Dusty Feet Mob. Then delve into the world of recycling and sustainability, accompanied by spectacular science experiments, explosions and many other surprises. The show will wrap up with a Q&A, hosted by local Coastal Care group and South Australian Arid Landscape Board members, to discuss community concerns and how to implement projects to raise awareness and solve the issues in the local community.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/this-show-is-not-rubbish-2/port-augusta/>



Scuba in the Pub: ocean, marine environment, habitat & specie conservation

When: Fri 27 Aug, 6pm – 8pm | **Where:** Rob Roy Hotel, Adelaide | **Cost:** Free
More info: <https://www.eventbrite.com.au/e/scuba-in-the-pub-national-science-week-tickets-163630781071>

Scuba in the Pub provides a platform for the community to be informed about how to protect our marine environment and creatures, to learn interesting facts, and to hear of opportunities to be involved with marine projects from qualified and entertaining guest speakers in a friendly social environment. Guest presenters will be: Dr Barbara Wueringer, Director, Sharks and Rays Australia (SARA) speaking on the plight of sawfish; and Mark Caney, Chairman, Project AWARE Foundation and Industry Relations and Training Executive (PADI) speaking on local action for global ocean conservation.

This event is supported by National Science Week SA as part of Big Science Adelaide.

<https://www.scienceweek.net.au/event/scuba-in-the-pub-ocean-marine-environment-habitat-and-specie-conservation/adelaide/>



2021 Citizen Science Showcase – Movies & Momentous Achievements

When: Sat 28 Aug, 6.30pm – 8.30pm | **Where:** Meningie RSL | **Cost:** Free
More info: <https://www.landscape.sa.gov.au/mr/get-involved/events>

This event will celebrate Meningie's local treasures – feathered, furred (including humans) and shelled – and includes a selection of Scinema International Science Film Festival short films, as well as the locally made 'The Science and Citizens of the Coorong'. There will be informative short talks about: Orange bellied parrot sightings; Freshwater turtle conservation; and Friends of the Coorong. Learn about local citizen science projects that YOU can join – TurtleSAT, FrogWatch SA & bird surveys.

<https://www.scienceweek.net.au/event/2021-citizen-science-showcase-movies-and-momentous-achievements/meningie/>



Dinner with Dinosaurs

When: Sun 29 Aug, 1.30pm – 4.30pm | **Where:** Adelaide Botanic Garden | **Cost:** Free
More info: <https://heapsgood.com.au>

A family-friendly theatrical production that explores the concept of plant adaptation & sustainability in an ever-changing world, live at the Adelaide Botanic Garden. This performance features renowned singing palaeontologist character, Professor Flint, supported by performers from the Australian Classical Youth Ballet. Additional activities include Dig a Dino and Animals Anonymous. It will look at the plants of the prehistoric world, as experienced through the eyes and tastebuds of the creatures that devoured them! Several palaeontologists will be on hand to provide additional information to members of the public. Professor Flint will also conduct a live-streamed tour of relevant parts of the Garden.

This National Science Week project is supported by the Australian Government.

<https://www.scienceweek.net.au/event/dinner-with-the-dinosaurs/adelaide/>



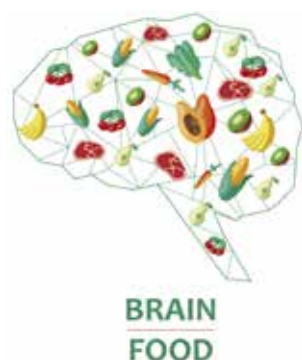
Discovering Stargazing, and the Effects of Light Pollution

When: Fri 10 Sept, 6.30pm – 11pm | **Where:** Swan Reach Area School | **Cost:** Free
More info: bookings@meldanda.com.au or phone 0427 590 344

This stargazing event will take place in the River Murray International Dark Sky Reserve. Participants in the hands-on field activities will use tools associated with astronomy, astrophotography, telescope operation, star chart interpretation and measuring light levels. Lessons on the history of astronomy, including SA leaders within the field, current innovative developments, and education on light pollution will also be provided.

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/river-murray-international-dark-sky-reserve-discovering-astronomy-stargazing-and-effects-of-light-pollution/cambrai/>



Brain Food

When: Sun 14 Nov, 11am – 3.30pm | **Where:** University of Adelaide, North Tce, Adelaide
Cost: Gold coin donation
More info: <https://www.facebook.com/brainfood2021>

Come and meet your brain at this fun, family-focused festival. Features interactive exhibits hosted by SA neuroscientists as they introduce you to the wonders of the human brain. You'll explore how our brains help us interact with the world around us, and learn about how neuroscientists discover what's happening inside the brain. Make sure you check in with the roving zombies – they're crazy about brains and can't wait to share some fun neuroscience facts with you. And don't forget the Brain Freeze challenge!

This event is supported by a National Science Week SA Community Grant.

<https://www.scienceweek.net.au/event/brain-food/adelaide/>

For all the events happening in South Australia and throughout the country during National Science Week, head to the national website which is constantly being updated with new events and activities to celebrate science:

www.scienceweek.net.au

BIG SCIENCE ADELAIDE



BIG ISSUES, BRILLIANT MINDS, GREAT SIGHTS & TOP SCIENCE

Feast your mind on **National Science Week** in the heart and head of Adelaide

Big Science Adelaide highlights events, primarily for adult audiences, in and around the Adelaide CBD and near areas. 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

Below are the events funded by National Science Week SA as part of the Big Science Adelaide program. The details for each event are in the chronological listings above.

Would I Lie to You?: Fri 13 Aug, 7pm to 9pm; Rob Roy Hotel, Adelaide

Adults Only Zone: Demystifying and Decoding Robots: Sat 14 Aug, 12pm - 3pm; Adelaide Showground, Wayville

Taste and Explore the Future of Food with Post Dining: Sun 15 Aug, 10.30pm - 12.30pm and 1pm - 3pm; The Joinery, Adelaide

Future Thinkers at Lot Fourteen

The Science of Space: Tues 17 Aug, 4pm - 6pm; Lot Fourteen, North Tce, Adelaide

The AI Revolution: Wed 18 Aug, 4pm - 6pm; Lot Fourteen, North Tce, Adelaide

The Cyber Frontier: Thurs 19 Aug, 4pm - 6pm; Lot Fourteen, North Tce, Adelaide

Makers after Dark @ Makerspace Adelaide: Fri 20 Aug, 6.30pm - 9.30pm; Makerspace Adelaide, Franklin St, Adelaide

AI IoT Science Spectacular 2021: Fri 20 Aug, 6.30pm - 9pm; Braggs Lecture Theatre, University of Adelaide

Innovation in Science & Entrepreneurship - Adelaide Masterclass: Thurs 26 Aug, 10am - 3pm; Hetzel Lecture Theatre, State Library of South Australia

Into the Slimelight: Thurs 26 Aug, 6pm - 7.30pm; MOD., North Tce, Adelaide

Scuba in the Pub: Fri 27 Aug, 6pm - 8pm; Rob Roy Hotel, Adelaide



14-22 August 2021

www.scienceweek.net.au

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School theme:

FOOD

DIFFERENT

by design



National Science Week is back for another year. Celebrate Australian science and technology by coming along to one of the many events across South Australia. Whether you're a science newcomer or mega enthusiast, you'll find an event that intrigues, challenges and entertains.

**INSPIRING
SOUTH
AUSTRALIA**
making science visible



inspiringsa.org.au

The Inspiring South Australia program is supported by the Australian Government, the Government of South Australia, the University of Adelaide, the University of South Australia, Flinders University and the South Australian Museum.