

Hi Bright Sparks,

Below is the latest list of exciting science events for May and June.

There are 2 activities that are also open to non-members: "Fossil Aliens" on Friday 12 May and "The ScientifiBubbleShow" on Friday 19 May. Let your friends know that they can come along to these events.

Bright Sparks Membership Renewal

Is your Bright Sparks membership current? All memberships fell due on 1 March, so - if you have not yet renewed - we ask that you do so at your earliest convenience. *You don't want to miss out on all our upcoming science experiences!* Renew any time at: www.sciences.adelaide.edu.au/bright-sparks/

Not renewing? Please let us know so we can amend our records.

A Few Reminders

- Bookings are essential for all events, including free events.
 - There is a charge associated with most events to cover the costs of presenters, venue hire fees and resources. However, we aim to keep charges down to a minimum, as well as having occasional free events.
 - In each update of events, there will be 2 or 3 events that are also open to non-members who will be charged a slightly higher amount.
 - Otherwise events are for MEMBERS ONLY. So, if you have friends who would like to come along, encourage them to join the club.
 - If there are still spare spaces available at an event a couple of days beforehand, I will send an email around to everyone to let them know that non-members may book into that particular event.
 - If you have any ideas for an event, or a particular topic you would like to see included, let me know and I'll follow it up.
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Booking for Events

Our preferred booking option, which also gives you the convenience of pre-paying, is to book online via: www.sciences.adelaide.edu.au/bright-sparks/

You also have the option of emailing us at brightsparks@adelaide.edu.au or calling Rona at any time on 0419 827 723.

Note that online booking via Eventbrite is for MEMBERS ONLY. If an event is also open to non-members, they need to book via phone or email.

Event booked out? Don't panic! Contact Rona as per the above details as additional sessions may be available.

Cannot make an event for which you have booked? Please make every attempt to come to events for which you have booked or contact us as soon as possible if you need to make a cancellation.

Bright Sparks Science Club Events: May - June 2017

Bookings are essential for these events.

Book via www.sciences.adelaide.edu.au/bright-sparks/ (preferred)

or email brightsparks@adelaide.edu.au or call Rona on 0419 827 723

No	Date	Event	Time	Address	Who	Cost
1	Friday 12/5/17	<p>Fossil Aliens</p> <p>So you thought aliens were just imaginary beings described in books or shown in science-fiction movies?</p> <p>Then you'll be surprised to hear about the plethora of aliens that lived in our very own state, some 500 million years ago, a time when animals were beginning to roam our oceans.</p> <p>Come and see for yourself - <i>and touch!</i> - their remains, which have been fossilised in the rocks of the Flinders Ranges and Kangaroo Island since those ancient times.</p> <p>Our speaker is Dr Diego Garcia-Bellido and he will give us an exciting insight into South Australia's half-a-billion year old fossil aliens.</p> <p>He is an ARC Future Fellow at the University of Adelaide and an Honorary Research Associate at the South Australian Museum, working on Cambrian Emu Bay Shale fossils and the Ediacara Biota.</p>	<p>60 minute presentation at: 6.30pm</p>	<p>University of Adelaide, North Tce Campus Horace Lamb Theatre</p>	<p>Members & their families</p> <p><i>Also open to non-members</i></p>	Free
<div style="display: flex; justify-content: space-around; align-items: center;">  </div>						
<div style="display: flex; justify-content: space-around; align-items: center;">  </div>						
2	Saturday 13/5/17	<p>Crystal Workshop</p> <p>We are going to be making crystals!</p> <p>Learn how crystals develop and how they grow, why different crystals have different shapes and sizes, and how light affects the colour of a crystal.</p> <p>Make Crystal Snowflakes, Coal Miners' Diamonds and Crystal Sparkles, as well as growing crystals along a string.</p> <p>You'll hear a lot about saturated liquids - and at every session you will each add a piece to an amazing Crystal Garden.</p> <p>As crystals take a while to develop, you will be taking your projects home to fully form over the days ahead.</p> <p><i>If possible, please bring along an empty plastic container (an ice cream tub would be ideal) to take home your budding crystal creations.</i></p>	<p>90 minute sessions at: 10.00am 12.30pm 3.00pm</p>	<p>University of Adelaide, North Tce Campus, Braggs Building</p> <p>Meet at Gate 9 on Victoria Drive, opposite the Uni Footbridge, 15 minutes before the start.</p> <p><i>Everyone, including adults, must wear enclosed shoes.</i></p>	<p>Members aged 8 & over</p> <p><i>No charge for accompanying adults.</i></p>	\$15 child
<div style="display: flex; justify-content: space-around; align-items: center;">  </div>						

3 Friday
19/5/17

The ScientifiBubble Show

From bubble tubes and sculptors to bubble rockets and volcanoes ... the ScientifiBubble Show really is IncrediBubble!

Discover the amazing science of bubbles with bubble-ologist Marty McBubble.

How are bubbles created? Why do they pop? What shapes and colours can bubbles make? Is a bubble a solid, a liquid or a gas?

What is surface tension and why is it important? What's it like to be inside a bubble? Marty will use his amazing variety of bubble gadgets, video projection, music and comedy to explain the scientific principles behind soap bubbles. Concepts include flexibility, transparency, iridescence, evaporation, bubble geometry, surface tension, and properties of solids, liquids and gases.

Discover all this and much more as Marty engages your sense of wonder with his interactive bubbly experiments. Get ready for bubbles! Get ready for science! Get ready for FUN!!



1 hour show
at:
6.30pm

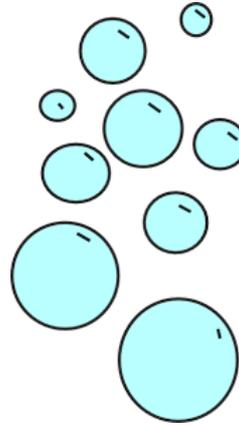
University of Adelaide,
North Tce Campus
Scott Theatre

Members &
their
families

Members:
\$8 child
\$8 adult

Also open
to non-
members

Non members:
\$10 child
\$10 adult



4 Sunday
21/5/17

ETSA Museum

Volunteer guides will take us on a tour to see equipment related to the generation and distribution of electricity in SA.

Check out old electrical appliances and test instruments. The collection includes over 800 exhibits from late 1890s and throughout the 20th century. There is also heavy duty electrical equipment used in power stations, as well as a huge console with meters for controlling massive steam turbines.

A team of dedicated volunteers is constantly restoring artefacts to add to the museum's extensive collection.

Finally, see the massive Tesla Coil in action, generating a huge million volt spark between the electrodes!



2 hour
session at:
10.00am

Thomas Playford ETSA
Museum
31 Broughton Ave,
Kurraltal Park

Most
suitable
ages:

\$5 child
\$5 adult

Members
age 9 & up



5	Saturday 27/5/17	<p>Our First Visitors:</p> <p>Their use of Wood and Stone</p> <p>Join geologist Graham Churchett in a journey back in time when the first humans came to Australia and made their way in a new land.</p> <p>We will explore how they used wood and stone to make tools to support their way of life. Hands-on activities include using a grind stone, making string and using a bow and drill as we share experiences about our First Visitors.</p> <p>Check out various volcanic rocks, a pudding stone and more.</p> <p>Then we'll set off on a "bush tucker" walk in the surrounding woodlands.</p>	<p>2 hour sessions at:</p> <p>10.00am</p> <p>12.30pm</p> <p>3.00pm</p>	<p>Morialta Resource Centre</p> <p>Morialta Conservation Park</p> <p>Corner of Stradbroke and Morialta Roads, Woodforde</p>	<p>Members</p> <p>\$10 child</p> <p><i>No charge for accompanying adults</i></p> <p>Graham will also have some special rock sets for sale on the day.</p>
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6A	Sunday 28/5/17	<p>Adelaide Planetarium:</p> <p>"Astronaut"</p> <p>Our session starts with an awesome full-dome movie. The exploration of space is the greatest endeavour that humankind has ever undertaken. What does it take to be part of this incredible journey? What does it take to become an astronaut?</p>	<p>1 hour sessions at:</p> <p>10.00am</p> <p>&</p> <p>1.30pm</p>	<p>Adelaide Planetarium, Uni of SA, Mawson Lakes Campus</p> <p>Building P</p>	<p>Members & Parents</p> <p>\$8 child</p> <p>\$10 adult</p>
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Experience a rocket launch from inside the body of an astronaut. Explore the amazing worlds of inner and outer space, from floating around the International Space Station to manoeuvring through microscopic regions of the human body. Discover the perils that lurk in space as test astronaut Chad is subjected to everything that space has to throw at him!

This will be followed by a planetarium night sky presentation, with the artificial night sky projected on to the surface of an eight-metre domed ceiling with a Zeiss Jena ZPK1 star projector.

Learn about our solar system, stars and constellations as you gain an insight into the splendour of our universe.



6B	Sunday 28/5/17	<p>Adelaide Planetarium:</p> <p>"Tilt"</p> <p>Our session starts with an awesome full-dome movie, Tilt.</p> <p>It's a crazy day when snow starts falling and it's the middle of summer! But sometimes crazy days are just what you need to discover something new.</p> <p>Join Annie and Max for a whirlwind adventure to find out how the seasons work. It's surprising what a new angle on the world can do!</p> <p>This will be followed by the planetarium night sky presentation.</p>	<p>1 hour sessions at:</p> <p>11.30am</p> <p>&</p> <p>3.00pm</p>	<p>Adelaide Planetarium, Uni of SA, Mawson Lakes Campus</p> <p>Building P</p>	<p>Members & Parents</p> <p>\$8 child</p> <p>\$10 adult</p>
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7	Thursday 1/6/17	Astronomy Viewing Evening	Start: 6.30pm	The Adelaide Observatory, The Heights School, Brunel Drive, Modbury Heights	Members & Parents	\$6 child \$12 adult
		<i>We are trying again for clear skies!</i>				
		View the heavens, the moon & its craters, stars, planets, nebulae and constellations through telescopes at the Adelaide Observatory.	Finish: approx 9.00pm	<i>Enter via the driveway on Augustus Street & park adjacent to the oval.</i>		
		You'll gaze through the 14" Meade in the domed observatory and the 12.5" scope in the roll-off roof building, as well as a variety of other visual and imaging equipment.				
		Please wear enclosed footwear and warm clothing.				
		<i>Before setting off, you will need to check the Adelaide Observatory's web site. Look under "Breaking News" for information about whether the session will proceed.</i>				
		www.adelaideobservatory.org				
		<i>Note:</i> Because of the possibility of the event being cancelled due to cloudy skies, we will not take pre-payments. Book via email or phone, and pay on the night by cash or card.				
						

8	Wednesday 7/6/17 & Wednesday 14/6/17 & Wednesday 21/6/17	Koala & Wildlife Hospital	90 minute sessions at: 6.30pm	Adelaide Koala and Wildlife Hospital, 282 Anzac Highway, Plympton	Members & Parents	\$10 child \$10 adult
		Rae Campbell, founder, will take us on a tour of this hospital that was specially built to help save South Australia's native wildlife, particularly koalas. Its purpose is to treat, rehabilitate and release native wildlife that may have been injured or orphaned from their natural environment. Long term care is arranged for animals that cannot be released back into the wild.				
		We'll check out the facilities needed to care for sick and injured wildlife. In the Education Room, we'll look through microscopes and learn more about Australia's koalas. The children will then make water basins for the koalas.				
		We'll also have a visit from Cubby, the resident "Big Koala", who will present each child with a goodie bag of honey biscuits, stickers and an activity booklet.			<i>Includes goodie bag for children & refreshments for parents.</i>	

9	Sunday 11/6/17	Bird Banding	4 hour field trip at: 11.00am	Newland Head Conservation Park (near Victor Harbor) <i>Map and further information will be sent closer to the date.</i>	Members age 10 & over and parents	\$10 per child \$10 per adult
		We will join renowned ornithologist Assoc Prof David Paton from the University of Adelaide. He is the leader of the Woodland Recovery Initiative project and his research expertise includes the ecology and behaviour of birds as well as vital conservation and revegetation programs and habitat restoration.				
		With the help of David and his field workers, we will collect birds from mist nets, identify, weigh and band them, feed them nectar and then release them back into the wild.				
		All results are recorded to go on a central database for research purposes.				
						

10	Saturday 17/6/17	<p align="center">Discovering St Kilda: Tram Museum and Mangroves</p>	<p>Start: 1.00pm Finish: 4.00pm</p>	<p>Adelaide Tram Museum, St Kilda Rd, St Kilda</p>	<p>Members & their families</p>	<p>\$8 per child \$10 per adult</p>
		<p><i>We'll be doing a range of activities:</i></p>				
		<p>1) The Tram Museum will open on the day especially for our group. Includes guided tours of displays, electric trams, trolley buses (as well as the very first Australian one), museum and horse trams. <i>You can climb aboard most of the trams on display.</i></p>				
		<p>2) We will also have a number of rides on a variety of restored trams to St Kilda Playground and back, plus time at the playground.</p>				
		<p>3) St Kilda is home to over 100 bird species, the largest mangrove estuary in Gulf St Vincent and the award-winning Adventure Playground like no other! We'll be joined by an ornithologist who will tell us more about the bird life, the mangroves, and the effects of the shut-down of the salt lakes. We'll take the opportunity to do a bit of bird-watching as St Kilda is renowned as one of the best places in Australia for birds.</p>				
11	Saturday 24/6/17	<p align="center">Wildlife on Wheels</p>	<p>60 minute sessions at: 10.00am 11.30am 1.00pm 2.30pm</p>	<p>Scout Hall, 95 Fourth Ave, Joslin</p>	<p>Members</p>	<p>\$15 child \$5 adult</p>
		<p>Hands-on sessions from <i>Animals Anonymous</i>, a team of environmental educators.</p>				
		<p>You will learn about - and handle - a diverse range of tame native wildlife that could include bettongs, squirrel gliders, pythons, crocodiles, potoroos, goannas, dunnarts, falcons, dragons, skinks and tawny frogmouths.</p>				
		<p>Learn how to conserve our awesome natural world so these creatures will thrive.</p>				
						
12	Friday 30/6/17	<p align="center">Ayers House after Dark</p>	<p>70 minute tours at: 6.30pm & 8.30pm</p>	<p>Ayers House, 288 North Tce, Adelaide</p>	<p>Members & Parents</p>	<p>\$10 child under 16 \$20 adult \$50 family of 2 adults + 2 children</p>
		<p>Ayers House stands today not only as the last surviving mansion of its era on the southern side of North Terrace but also interprets the life of an upper middle class family of the 19th Century.</p>				
		<p>Home of Sir Henry Ayers from 1855 to 1897, this magnificent property has been restored to its former opulence.</p>	<p><i>Please wear comfortable footwear and arrive 10 minutes prior to the start time.</i></p>			
		<p>Step back to 1876 as we tour this historical mansion at night, led by performers in period costumes and with only candles to light the way. Not all goes well: there is a disaster in the kitchen and the cook is hysterical.</p>				
		<p><i>Watch out for the rats!</i></p>				
		<p>Engaging, fun and often hilarious tour with lots of history thrown in.</p>				
						