

SCIENCEWEEK.NET.AU

NATIONAL SCIENCE WEEK TASMANIA EVENTS | AUGUST 2019



MERCURY

The Advocate

EXAMINER

WELCOME TO NATIONAL SCIENCE WEEK TASMANIA



FROM OUR PATRON

Nobel Laureate, Professor Emerita Elizabeth Blackburn

Welcome to the National Science Week Tasmania program of events. In here you will find a pathway into the heart of Tasmanian science, a place where you will be inspired and amazed and develop a new appreciation for the outstanding work that scientists, researchers and innovators are doing right here in our beautiful island home.

I am a very proud Tasmanian. I was born in Snug and grew up in Launceston, and it was here that I was first inspired to pursue a career in science. The Tasmanian environment helped ignite my own curiosity. In my childhood I loved animals, even the jellyfish and stinging ants I found around the beach near my home and I developed a fascination for the world around me. As I grew into adulthood I recognised that science was a way for me to turn that spark of curiosity into a fulfilling career and a lifelong pursuit of new knowledge that benefits society.

Science Week can be that spark for you and your family and I encourage you to attend events and participate in the wealth of activities on offer.

Science is our greatest asset for facing the world's most significant challenges. While I continue to work in a field of research dedicated to improving human health, more and more I try to champion science and technology as tools that can deal with other global issues such as planetary health.

Science is for everyone. It is not separate from us and is part of all our lives. Science Week is a fabulous opportunity for each of us to participate and celebrate the valuable role that science plays in our society.

The best science ultimately comes, in some form or other, from team efforts. Collaborations of minds and efforts are vital to science and, I believe, for the community to mobilise and actively participate in science activities and discourse. We can benefit from taking a collective approach to nurturing science capability in the community, and Science Week is a valuable mechanism for inspiring a new generation of children to become curious about the world we inhabit!

FROM THE MINISTER

Hon Michael Ferguson MP, Minister for Science & Technology

Science Week is a time to celebrate our achievements, our discoveries and our yet to be answered questions. It helps us understand our world and beyond.

Science Week harnesses the power of curiosity and wonder. It recognises the dreamers, the deep thinkers and the innovators, and makes science accessible to everyone.

The Tasmanian Liberal Government is excited to once again support the Science Week program, which this year welcomes Tasmanian born and raised Nobel laureate, Professor Elizabeth Blackburn, as its inaugural Patron. As the first woman in Australia to receive a Nobel Prize, Dr Blackburn is an inspiration for current and future generations of Tasmanian scientists and innovators.

The 2019 Science Week line-up in Tasmania is packed full of engaging and fascinating events right across the state.

TastroFest, Tasmania's astronomy festival, will kick off Science Week with NASA astronauts and experts on hand to celebrate the 50th anniversary of the moon landing, one of the greatest achievements in human history.

The legacy of Apollo 11 will also be at the core of the 2019 Science Week schools program with 'Destination Moon' taking centre stage, and the Festival of Bright Ideas will bring the STEM sector and the community together at Princes Wharf 1 to inspire life-long learners of all ages.

Hobart's youth dance company DRILL will present NEON, an art-science fusion, to engage the young and young at heart, and Greening Australia and the Tasmanian Aboriginal community are joining forces to explore traditional and contemporary sci-tech knowledge with the Tasmanian Midlands Biodiversity Hotspot.

Perennial favourite, BeakerStreet@TMAG – the pop-up science bar – will return to the Tasmanian Museum and Art Gallery with a fresh new program for 2019.

Let Science Week inspire you and take you exploring: the sky is no longer the limit.

In 2019 there is something for everyone at Science Week in Tasmania – we heartily encourage you to get involved in as many events as possible.

ALL EVENTS ARE OPEN TO THE PUBLIC AND ARE FREE UNLESS OTHERWISE STATED. PLEASE CHECK EVENT WEBSITES FOR UP TO DATE INFORMATION.

Grab the free app!



Facebook: natsciweektas
Twitter: sciencetasmania
Instagram: #scienceweek

In Tasmania, National Science Week is supported by Inspiring Australia, the University of Tasmania and the Tasmanian Government, and is coordinated by the Tasmanian National Science Week Coordinating Committee who work with event holders to develop, produce and promote a state-wide program of events.



The Tasmanian National Science Week Coordinating Committee acknowledges the Traditional Custodians of lutruwita, Tasmania and respects the palawa/pakana people for their living cultures and knowledge systems. We pay our respects to Elders past and present and thank all community members who are assisting in the delivery of this state-wide program in 2019.

EVENTS NEAR YOU

SOUTHERN EVENTS	4-14
YOUNG TASSIE SCIENTISTS	15
NORTHERN EVENTS	16-17
NORTHWEST AND WESTERN EVENTS	18-19
STATEWIDE EVENTS	20
EVENT QUICK GUIDE	22-23

KEY TO EVENTS:

	Children's University		Film
	Community Expo		Performance
	Competition		Outdoor
	Dinner/Food		Online
	Exhibition		Talk
	Family		Tour
	Festival		Workshop



TASTROFEST

Thursday 1 - Saturday 3 August

Australia's biggest astronomy festival celebrates the 50th anniversary of the Moon landing! NASA live stream, VR, star gazing & more!

BEAKERSTREET@TMAG

Friday 16 - Saturday 17 August

Roving scientists, thylacine DNA, cocktails, Ockham's Razor live podcast, retro gaming, art, performance & hands-on activities for everyone.

FESTIVAL OF BRIGHT IDEAS

Saturday 10 August

FOBI is exploding with science for all your senses. See, hear and feel what's happening in science in Tasmania.



SCIENCE OPEN SEASON

Saturday 10 - Friday 16 August

Dinosaurs, the Moon landing, and the Crazy Scientist feature in QVMAG's massive program of activities.



4 SOUTHERN EVENTS

SCIENCE STREET PARTY



MENZIES INSTITUTE OF MEDICAL RESEARCH

Head to Good Grief Studios to watch a local artist live paint a street art installation of the unique wonders of Tasmanian science. There will be a meet and greet with the artist creating the work and the scientists that contributed, a science dance performance by DRILL, science band Atomic Deluxe, live sound wave art projected throughout, a pop-up bar, food trucks, and more surprises to be announced.

Saturday 3 August, 4 – 8pm

Good Grief Studios
62 Argyle Street, Hobart

Bookings appreciated:
facebook.com/sciencestreetparty
niamh.chapman@utas.edu.au

A HEALTHY CATCHMENT FOR HOBART'S DRINKING WATER



THE DERWENT CATCHMENT PROJECT

Come and search for waterbugs in a model river and identify them using the free waterbug app. Chat to people from The Derwent Catchment Project about what keeps a catchment healthy and how we as 'citizen scientists' can tell if our waterways are in good shape.

Sunday 4 August, 8:30am – 1pm

Farm Gate Market
Bathurst Street (between Murray and Elizabeth Streets), Hobart

Trish Clements, 0477 207 440
support@derwentcatchment.org
derwentcatchment.org

HUON VALLEY STEM EXPO



HUON HIGH SCHOOL

The Huon STEM Expo invites the community to see the results of ten Huon Valley schools coming together to celebrate and explore innovations in STEM. Technology, renewable energy and activities re-using waste are this year's themes. Take part in the cardboard challenge: make something functional, durable and strong from waste.

Tuesday 6 August, 12 – 2:30pm

Huonville Primary Multipurpose Room
72 Wilmot Road, Huonville

Nel Smit, 0407 684 029
nelssmit@gmail.com

HOW NEUTRONS CAN SAVE THE WORLD!

AUSTRALIAN INSTITUTE OF PHYSICS

They're small, neutral and often in a spin - so much more than 'just' part of the atom. Neutrons are the sub-atomic particles that are here to save the world! Speaker Dr Helen Maynard-Casely from ANSTO will tell you how neutrons are here to shed light and solve the grand challenges we face today.

Tuesday 6 August, 8 – 9pm

Physics Lecture Theatre 1, University of Tasmania, Sandy Bay campus
Clark Road, Sandy Bay

simon.ellingsen@utas.edu.au
aip.org.au/category/tas

BOTANICAL ART – MICROSCOPES, LEAVES AND PHOTOGRAPHY



ELIZABETH COLLEGE

Be adventurous and go back to school with botany and science! Create a work of art by sectioning, staining and using microscopy on a variety of botanical samples, led by Dr Tanya Scharaschkin. All welcome.

Wednesday 7 August, 2:30 – 4:30pm

Elizabeth College Science Block, B301
256 Elizabeth Street, Hobart

Bookings essential:
elizabethcollege.tas.edu.au

CURIOUS CLIMATE TASMANIA

CENTRE FOR MARINE SOCIOECOLOGY

Speak face-to-face with some of Tasmania's brightest science minds about the climate change issues most important to residents in southern and central Tasmania. Answers to some of the most popular questions submitted through an ABC Radio call-out will be revealed, plus live Q&A with University of Tasmania and CSIRO scientists.

Thursday 8 August, 6 – 7:30pm

Sir Stanley Burbury Theatre, University of Tasmania, Sandy Bay campus
Churchill Avenue, Sandy Bay

Bookings appreciated:
curiousclimate.org.au, 03 6226 1839
david.mossop@utas.edu.au

FAMILY STEM EVENING AT THE A-LAB



PETER UNDERWOOD CENTRE

An evening of fun, interactive STEM activities for the whole family using the latest technologies! Participate in a variety of engineering design challenges to develop 21st Century skills and a passion for STEM. There is something to inspire all ages!

Thursday 8 August, 5 – 8pm

A-Lab @ the Peter Underwood Centre
157 Elizabeth Street, Hobart

rosemary.r.anderson@education.tas.gov.au
utas.edu.au/underwood-centre

BLUEPRINTS OF NATURE



INALA FOUNDATION

Back when science and art were better acquainted, we find a beautiful story weaving together the histories of women, art and science through cyanotype photography. Using a technique unchanged since the 1800s, create your own blueprints of nature using the power of the sun.

Demonstrations will be held at 10:30am and 1:30pm, however anyone arriving outside of these times will still be able to participate. BYO lunch and drinks - there is plenty of space inside and out for a picnic. Suitable for all ages (children must be supervised).

This event will run rain, hail or shine.

Saturday 10 August, 10:20am – 4pm

Inala Nature Tours
320 Cloudy Bay Road, South Bruny Island

03 6293 1217
inala@inalanaturetours.com.au
inalanaturetours.com.au

CRAIG CHALLEN: AUSTRALIAN OF THE YEAR

UNIVERSITY OF TASMANIA AND TASMANIAN AUSTRALIA DAY NETWORK

Joint Australian of the Year Craig Challen SC OAM explores how a love of investigation and environment enabled him to help others. Craig will share his fascinating story from the depths of the 2018 Thai cave rescue mission and participate in a panel discussion about extreme environments and emergency medicine and response.

Saturday 10 August, 5 – 6pm

Sir Stanley Burbury Theatre, University of Tasmania, Sandy Bay campus
Churchill Avenue, Sandy Bay

Bookings recommended:
bit.ly/challenADY
sarah.bayne@utas.edu.au



SPEAKER PROFILE CRAIG CHALLEN AUSTRALIAN OF THE YEAR

In July 2018 Craig participated in the Tham Luang cave rescue of 13 people in Thailand. He has been named as the 2019 Australian of the Year for Western Australia and the joint 2019 Australian of the Year with his dive partner Richard Harris.

An Australian cave explorer and member of the Wet Mules diving group, some of Craig's notable explorations include the extension of Cocklebidy Cave on the Nullarbor Plain of Australia in 2008 and the Pearse Resurgence in New Zealand over the last 10 years.

A veterinary surgeon by profession, Craig is also an enthusiastic helicopter and aeroplane pilot and has an avid interest in shipwreck diving.

See Craig speak at the University of Tasmania (above)

PAINTING A CHANGING WORLD: HOW ART AND SCIENCE CAN SPEAK TOGETHER IN A TIME OF ENVIRONMENTAL CHANGE



HADLEY'S ART PRIZE

Why do palaeoecologists look at art? What is the role of art in conservation? And how might art and science come together to help us respond to environmental change?

Come and hear scientists, artists and curators reflect at a special Hadley's Art Prize afternoon tea with tea, coffee, and scones provided.

Sunday 11 August, 2 – 3pm

Hadley's Orient Hotel
34 Murray Street, Hobart

Bookings essential:
eventbrite.com.au/e/painting-a-changing-world-tickets-62895498128

0490 389 415
penelope.jones@utas.edu.au
hadleysartprize.com.au

WALKING THROUGH ICELAND: LESSONS IN VEGETATION AND VOLCANOES



This film screening and presentation by Bob Holderness-Roddam will look at Iceland's climate and some of the volcanic history, including eruptions, that severely affected the northern hemisphere climate. The talk includes a 20 minute film about the presenter's 1972 visit to Lake Myvatn exploring scenery and bird life.

Monday 12 August, 7 – 8pm

Room 302, Engineering Building, University of Tasmania, Sandy Bay campus
Dobson Road, Sandy Bay

Bookings recommended:
rholdern@utas.edu.au, 03 6249 1579

NATIONAL SCIENCE WEEK QUIZ FOR TASMANIACS



SCIENCE TEACHERS ASSOCIATION OF TASMANIA

Grab a team of eight and test your knowledge in this fun, science themed quiz. 50 years on from the lunar landing there still is no planet B? Ever wondered what a puggle eats or how many women have landed on the moon? These questions and more shall be answered along with fun games and prizes.

Tuesday 13 August, 6:30 – 9pm

Buckingham Rowing Club @ New Town Rowing Centre
5 Marine Esplanade, New Town

\$5 adults; \$3 concession/students
BYO food, drinks at bar prices.
Entry fee at door.

Bookings essential:
trybooking.com/BDMEV
stat.org.au

INTO THE VAULTS: AN EVENING AT THE STATE'S ZOOLOGY COLLECTION



TASMANIAN MUSEUM AND ART GALLERY (TMAG)

Unlock the vault and explore a space rarely seen by the public. You'll have an opportunity to be guided by scientists while investigating a collection that covers whales to weevils and thousands of animals in between. Hear about the Museum's latest research on Tasmanian animals. This exclusive opportunity is not to be missed!

Tuesday 13 August, 6 – 7:30pm

TMAG Collections and Research Facility
5 Winkleigh Place, Rosny

Bookings essential: curatorenquiries@tmag.tas.gov.au. Capacity is limited! Minimum age 13

03 6165 6929
tmag.tas.gov.au/collections_and_research/zoology

MARINE PLASTICS: FINDING SOLUTIONS BY LINKING SCIENCE AND COMMUNITY



AUSTRALIAN METEOROLOGICAL AND OCEANOGRAPHIC SOCIETY/ AUSTRALIAN MARINE SCIENCES ASSOCIATION

Have you ever wondered how marine plastics are transported around the world? What their impact on marine life is? And how the community can help reduce the amount of plastics entering the marine environment? Presenters tackle these issues through three short talks and a Q&A forum with local experts.

Tuesday 13 August, 6 – 7:30pm

Sir Stanley Burbury Theatre, University of Tasmania, Sandy Bay campus
Churchill Ave, Sandy Bay

carly.tozer@csiro.au

LEGO AT THE LIBRARY



BRIDGEWATER LIBRARY

Lego Challenge will ask participants to reproduce an image with Lego bricks. This is an introduction to scientific concepts through fun, practical, hands on experiences and the challenges are age appropriate. Activities will encourage both group and individual work.

LEGO CHALLENGE

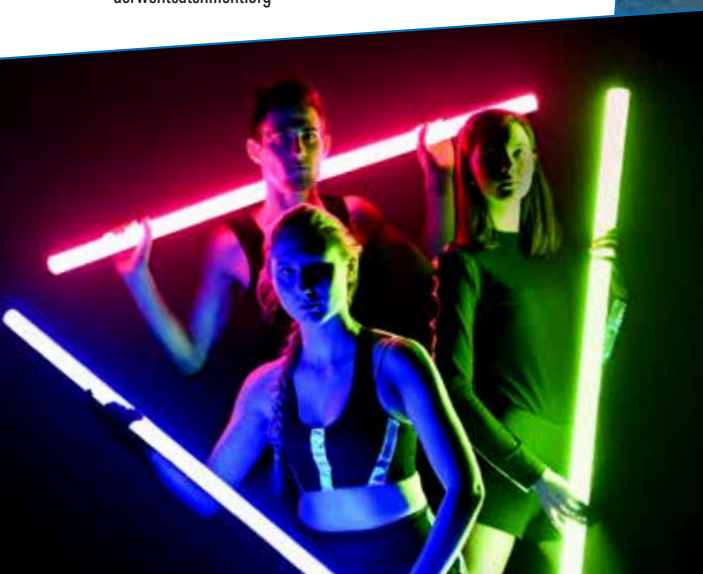
Tuesday 13 August, 3 – 4:30pm
Appropriate for ages primary and above

LEGO PLAY AND LEARN

Wednesday 14 August, 10:30 – 11am
Appropriate for pre-school children

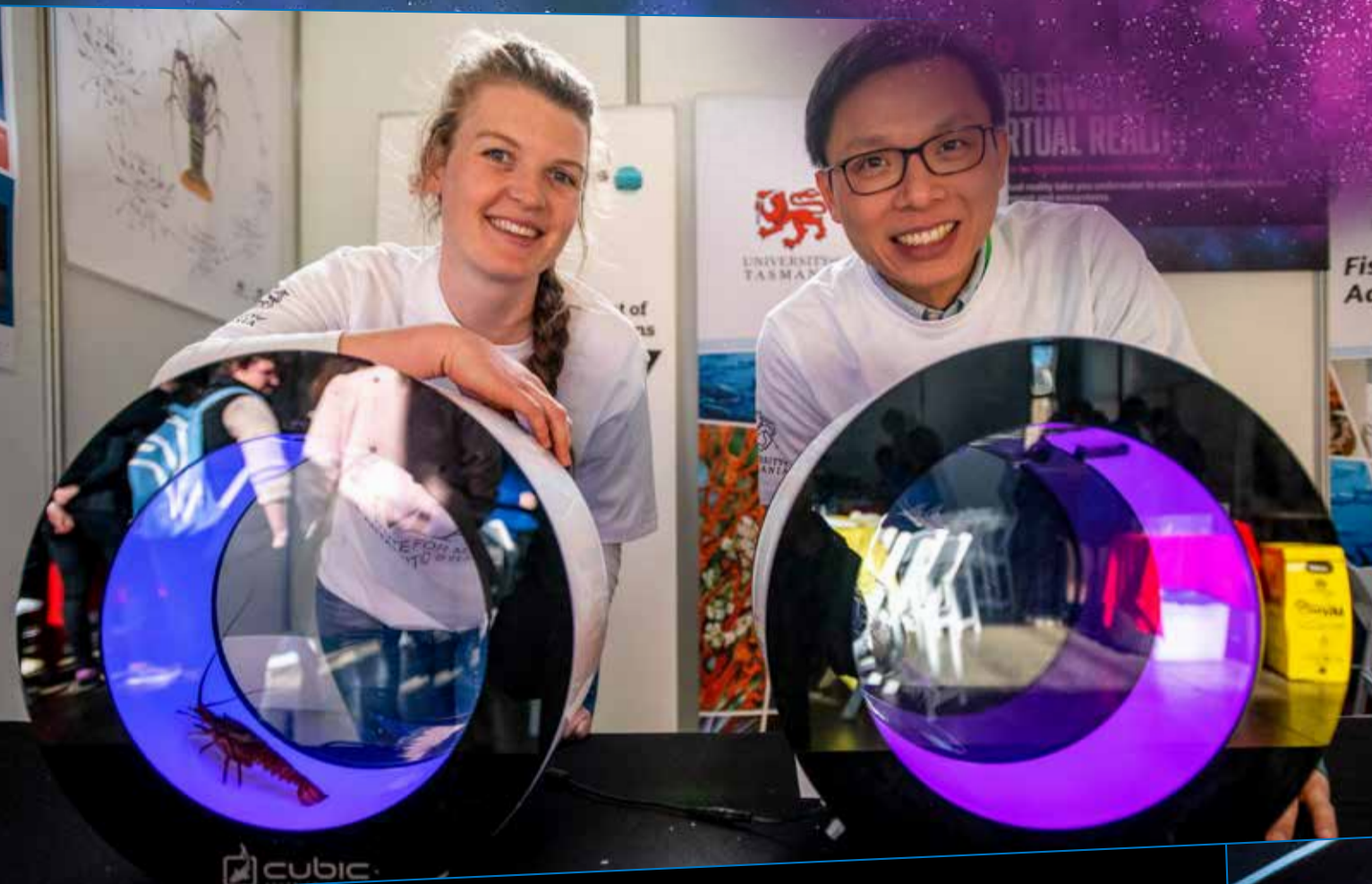
Bridgewater Library
23 Green Point Road behind Civic Centre, Bridgewater

03 6165 5446
bridgewater.library@education.tas.gov.au
facebook.com/BridgewaterLibraryTasmania



SOUTHERN EVENTS

SOUTHERN EVENTS 7



HIGHLIGHTS

MARTY MCBUBBLE

THE SCIENTIFIC BUBBLE SHOW

Marty McBubble will amaze you with his incredible bubble creations and the scientific wonders that make them possible. With quirky gadgets and plenty of comedy Marty will create bubble rockets and volcanos, bubble cubes and carousels, bubble caterpillars and ice-cream, put children inside giant bubbles, and much more.

Did we mention that Marty also holds the current World Record for the largest bubble ever made indoors!



MAGNUS D. MAGNUS

MAGNUS' EXPLOSION LABORATORY

A live science comedy show featuring spectacular demonstrations and surprising explanations of chemistry, physics and electromagnetism!

This show was awarded the 2019 FRINGE WORLD Children's Event Award.



CLARE VAN DORSSSEN

DIY SCIENCE

Join Clare in creating fun science, using only things found around the home! From creating smoke rings, to using your vacuum cleaner as a marshmallow cannon, this show will give you some great ideas in how to do science everywhere!

Clare is the co-host of the children's TV science show *BrainBuzz*.



FESTIVAL OF BRIGHT IDEAS

PRINCES WHARF NO.1
10 AUGUST 2019 10AM – 5PM
FESTIVALOFBRIGHTIDEAS.COM.AU
UNDER 18s FREE, ADULTS \$10



FOBI 2019 IS FIZZING WITH EXCITING SCIENCE TO BLOW YOUR CURIOUS AND CREATIVE MIND. FROM THE SCIENCE OF BUBBLES AND MARSHMALLOW CANNONS, DANCING ROBOTS AND UNDERSEA CREATURES, PLANT CELLS AND MEGA FAUNA, REPURPOSING OLD TECHNOLOGY AND VIRTUAL WORLD TOURS, THERE'LL BE SOMETHING AT FOBI TO SPARK YOUR IMAGINATION. THIS FESTIVAL SHOWCASES THE BRIGHTEST INNOVATION, RESEARCH AND TECHNOLOGY HAPPENING IN TASMANIA – AND IT'S COMING TO YOU THIS AUGUST.

Presented by:



Supported by:

FOR THE FULL PROGRAM INCLUDING STAGE SHOWS, WORKSHOPS, TOURS AND TICKETS VISIT FESTIVALOFBRIGHTIDEAS.COM.AU #FOBI19

8 SOUTHERN EVENTS

SCIENCE FOR THE CURIOUS AND CREATIVE

Over 50 experiences presented by Tasmania's science superstars...

DISCOVER

How are water and sewage managed in space?
Learn how to measure your home's energy efficiency
Tracks and traces of Tasmania's wildlife
How industrial waste metals can be used in new technologies
What is Tiny Science?
Seahorses, globefish and the Northern Pacific Sea Star
Polymers are everywhere! But what and where are they?



Photo: Rob Armstrong

EXPLORE

Navigate your way around a Mobius strip
Drones, Virtual Reality, game design and 3D printing
Why plants make flavours and how we perceive them with our senses
Learn how to use a dichotomous key to identify native invertebrates
How do medications work? Have a go at designing your own!
What is the Long-Spined sea urchin doing to Tasmania's reefs?



Photo: Chloe Simons

TOUR

The History & Geology of Salamanca Walking Tour
Engineering Heritage Walk



THE FOBI 2019 SHOWCASE IS PRESENTED BY

Aurora Energy	Science Teachers Association of Tasmania
Australian Antarctic Division	Southernstorm Environmental Consultants
City of Hobart	Sustainability Learning Centre
Coder College	Tasmanian Albatross Fund
CSIRO	Tasmanian Model Solar Challenge
Dominic College	Tasmanian Museum and Art Gallery
DPIPWE	TasNetworks
EKIDAZ	TasWater
Engineers Australia	Ten Lives Cat Centre
EPA Tasmania	University of Tasmania:
Forest Education Foundation	<i>Institute for Marine and Antarctic Studies</i>
Goldwind	<i>Menzies Institute for Medical Research</i>
Hobart Hackerspace	<i>Peter Underwood Centre</i>
Hydro Tasmania	<i>School of Engineering</i>
Inspiring Tasmania	<i>School of Medicine (Pharmacy)</i>
Keep Australia Beautiful	<i>School of Natural Sciences (Biological Sciences, CABA, Earth Sciences, Mathematics)</i>
Make Science Fun	<i>School of Technology, Environment and Design (ICT, Geography and Spatial Sciences)</i>
Marine Discovery Centre	<i>Tasmanian Institute of Agriculture</i>
Marine National Facility, CSIRO	<i>UTAS Motorsport</i>
MONA/24 Carrot Gardens	<i>UTAS Robotics</i>
Nature. Be in it.	<i>Young Tassie Scientists</i>
Parks and Wildlife	
Push Start VR	
RoboCup Junior Tasmania	
Royal Australian Chemical Institute (RACI)	
Salamanca Tours	
Science Communications Initiative (SCI)	



FOBI BY NIGHT

THE SPACE COWBOY PRESENTS STRANGER THAN FICTION

A HILARIOUSLY ENTERTAINING AND DARING SCIENCE STUNT SHOW NOT TO BE MISSED. WARNING - SPARKS AND ARROWS WILL FLY AND YOUR HEART WILL POUND DURING THIS JAW-DROPPING PERFORMANCE CREATED FOR CHILDREN AND ADULTS ALIKE.

Joined by special guest and mad scientist Professor Patrick Sparks this dynamic duo push mind, body and science to the limit in a series of mind-blowing experiments to prove that "Any sufficiently advanced technology is indistinguishable from magic." Arthur C Clarke.

Acting as human guinea pigs they will conduct a series of bizarre experiments upon themselves and others; including a high-speed lesson in reaction time, blindfolded arrow-catching, demonstrations of mind-control through neuroscience and an assessment of the conductivity of human skin with high voltage electricity.

Friday 9 August, 6:30-8pm - Princes Wharf 1

Adult \$20, Child \$10, Family \$50 - food and beverages available for purchase

Tickets: www.trybooking.com/BCTBR

WINNER

The Festival Hub, Peoples choice award, Edinburgh Fringe Festival

WINNER

Outrageous Acts of Science, Science Channel Television show 2018

FOR THE FULL PROGRAM INCLUDING STAGE SHOWS, WORKSHOPS, TOURS AND TICKETS VISIT FESTIVALOFBRIGHTIDEAS.COM.AU #FOBI19

10 SOUTHERN EVENTS



BEAKERSTREET@TMAG IS A POP-UP SCIENCE BAR, A PARLOUR OF CURIOSITIES, AN INN FOR INQUIRING MINDS. COME ALONG TO QUENCH YOUR THIRST... FOR KNOWLEDGE.

Photo: Dahlia Foo

BEAKERSTREET @TMAG



16-17 AUGUST 2019

6PM – MIDNIGHT

TASMANIAN MUSEUM AND ART GALLERY
FREE ENTRY*

FOR DETAILS AND TICKETS,
VISIT BEAKERSTREET.COM.AU

*Some events are ticketed and at other locations.
Under-18s must be accompanied by an adult.

NATASHA MITCHELL
Science Friction Debate

BERNIE HOBBS
Ockham's Razor Live!

MONA
Invasive Species Cocktail Bar

RETRO VIDEO GAME LOUNGE

TASMANIAN WHISKY WEEK
Distillers' Bar

MOO BREW + WILLIE SMITH'S
Science of Booze Workshop

THE TASSIE SCIENCE
PHOTOGRAPHY PRIZE

WORKSHOPS IN THE TOWN HALL
UNDERGROUND

MICROBIOMES, BODY HACKING,
WINE SCIENCE, AND MORE!

Presented by:



Supported by:



SOUTHERN EVENTS 11

Photo: MONA/Bémi Chauvin

KIRSHA KAECHLE
EAT THE PROBLEM

Photo: Melbourne University

PROFESSOR MADELEINE VAN OPPEN
GENETICALLY ENGINEERING CORAL REEFS

Photo: John Dennis

DR ALON ILSAR
ON THE AIRSTICKS

AUSTRALIAN ACADEMY OF SCIENCE TALKS @ TOWN HALL FRIDAY 16 AUGUST

Join Radio National science journalists Professor Robyn Williams, Natasha Mitchell and Bernie Hobbs, along with four world-leading scientists from around Australia. They'll expand your mind on topics ranging from male extinction to the hidden genius of the Periodic Table.

Tickets: www.beakerstreet.com.au

PROFESSOR MIKE ARCHER
RESURRECTING THE THYLACINE

Photo: Stuart Humphreys

MATTHEW EVANS
THE GOURMET FARMER ON ETHICAL MEAT EATING

MENZIES LIVING LABORATORY
HANDS-ON SCIENCE WITH DR PENNY JONES,
NIAMH CHAPMAN, AND MANY MORE.

DETAILS AND TICKETS: BEAKERSTREET.COM.AU

SOUTHERN EVENTS

BEAKERSTREET@TMAG OUT AND ABOUT

BEAKERSTREET.COM.AU

THE SCIENCE OF CHOCOLATE MAKING

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FEDERATION ARTISAN CHOCOLATE

Follow the cacao bean as it is transformed into delectable chocolate. Taste and experience each step of the journey with the science behind what makes chocolate amazing. Learn how cacao beans are grown and what makes bean to bar chocolate a unique taste sensation. A glass of wine is included for those 18+.

Friday 16 August 5:30 – 6:30pm

Federation Artisan Chocolate
3 Victoria Street, Hobart

\$30 adults, \$25 concession
Book a ticket and view the rest of the program at beakerstreet.com.au

IN DARWIN'S FOOTSTEPS

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WALK ON KUNANYI

Enjoy a fully catered, guided walk which retraces most of Charles Darwin's climb of kunanyi / Mt Wellington. The walk will celebrate the rich natural sciences of the mountain, visiting the sites of numerous groundbreaking discoveries. The day will end at the Evolve Bar at MACq 01 Hotel, and will include a cocktail for those 18+.

Saturday 17 August 12:30pm – 5:45pm

Departure location: Tasmanian Museum and Art Gallery
Dunn Place, Hobart

\$150 adult, \$140 concession,
\$100 children under 13

In the case of very bad weather, the walk may be modified or cancelled. Ticket holders will be notified or refunded as necessary. Please bring appropriate all-weather clothing and shoes.

Book online at walkonkunanyi.com.au
0481 226 981
hello@walkonkunanyi.com.au

ANTARCTIC TALES AT MAWSON'S HUTS

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MAWSON'S HUTS REPLICA MUSEUM

A chance to explore the Mawson's Huts Replica Museum while listening to tales of Antarctic adventures from people who have survived the cold winters, explored the frozen landscapes, and revelled in the stunning beauty of Antarctica.

Saturday 17 August
Session 1: 4:30 – 5:10pm
Session 2: 5:20 – 6pm

Mawson's Huts Replica Museum
Corner Morrison & Argyle Streets,
Hobart

\$6 per person

Book a ticket and view the rest of the program at beakerstreet.com.au

WEIRD SCIENCE: THE PETRI DISH AT THE BOTTOM OF THE WORLD

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THE STORY BAR AT MACQ 01 HOTEL

Tasmania was an open-air laboratory that excited the minds and tested the courage of many, keen to describe and share what they found. Warm up for BeakerStreet@TMAG at The Story Bar at MACq 01 Hotel to hear intriguing tales about the germination of the momentous, the marvellous and the 'meh'.

Saturday 17 August 5 – 5:50pm
The Story Bar at MACq 01 Hotel
18 Hunter Street, Hobart

\$25 per person, includes a welcome drink

Book a ticket and view the rest of the program at beakerstreet.com.au

AFTER EACH EVENT, WHY NOT HEAD TO BEAKERSTREET@TMAG, THE POP-UP SCIENCE BAR? (PAGES 10-11)



#SCIPUBIMPRO - WHERE SCIENCE MEETS IMPRO THEATRE!

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SCIENCE IN THE PUB

Come along to a very special SciPub event! SciPub is teaming up with local director Rowan Harris and a fantastic team of improvisation artists for an evening blending SciPub style science communication with improvisational theatre. Whether you're into science, theatre or both, it promises to be buckets of fun!

Wednesday 14 and 15 August, 6 – 7:30pm

Republic Bar & Cafe
299 Elizabeth Street, North Hobart

Bookings essential: eventbrite.com/e/scipubimpro-where-science-meets-impro-theatre-tickets-62545578509

0490 389 415
penelope.jones@utas.edu.au
scipubtas.org.au

WATERBUG WONDERLAND

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CITY OF HOBART BUSHCARE

Take a look into the sparkling world of water where there's a micro world of swimmers, crawlers and slitherers! Catch some, test out your identification skills and explore what these little creatures might grow up to be. Appropriate for ages 14 and under.

Bring: Gumboots or old shoes, and a spare set of clothing in case we get a bit wet.

Wednesday 14 August, 10 – 11:30am

Waterworks Reserve
Waterworks Road, Ridgeway

\$6 per child, adults free
Bookings essential:
trybooking.com/BDGXJ
03 6238 2886
bushadventures@hobartcity.com.au

SPEAKER PROFILE

DR HELEN MAYNARD-CASELY THE 2019 AIP WOMEN IN PHYSICS LECTURER

Helen Maynard-Casely is a Planetary Scientist based at the Australian Nuclear Science and Technology Organisation (ANSTO) where she uses neutrons and synchrotron x-rays to investigate the materials that make up our solar system. She has a PhD in high-pressure physics from the University of Edinburgh and has been lucky enough to have collected data in facilities all over the world, blowing up a few diamonds along the way. Always keen to tell anyone who'll listen about neutrons she tweets @Helen_E_MC.

See Helen speak at 'How Neutrons Can Save the World' (page 4).

INTO THE VAULTS: AN EVENING AT THE TASMANIAN HERBARIUM

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TASMANIAN MUSEUM AND ART GALLERY (TMAG)

Come to the Tasmanian Herbarium and see the world's largest collection of Tasmanian plant specimens. Join its curators to hear about famous sea voyages, moss from the bones of a dead bushranger, and plants as rare as orange-bellied parrots. This exclusive opportunity is not to be missed!

Wednesday 14 August, 5:30 – 6:30pm

Tasmanian Herbarium
College Road, Sandy Bay

Bookings essential:
Kim Hill, 03 6165 5143 or
herbarium@tmag.tas.gov.au
Minimum age 14.

tmag.tas.gov.au

NEON DRILL

NEON is a contemporary science dance work by Hobart's youth dance company, DRILL. Start with a range of fun, scientific experiments with artistic outcomes, and then enter the free-roaming performance experience, where you are given the choice of how to watch and listen to the unique and exciting piece.

Wednesday 14 – 17 August 7pm
Matinee performance 17 August 1pm

Bayview Secondary College
170 Mockridge Road, Clarendon Vale

\$27 per person
Bookings essential: drillperformance.com
Capacity is limited!

admin@drillperformance.com



DESTINATION ST BRIGID'S

🍷 🍷

ST BRIGID'S CATHOLIC SCHOOL

The local community is invited to see what students have created as part of the school's 2019 Science Fair: Destination Moon. With many budding young scientists in our midst, perhaps the next major discovery will come from one of these enthusiastic, creative children.

Wednesday 14 August, 10am – 2pm

St Brigid's Catholic School
89 Montagu Street, New Norfolk

0417 332 999
nicholas.butler@catholic.tas.edu.au

COMEDY STANDS UP FOR SCIENCE!

TA-DAA! PROFESSIONAL ENTERTAINMENT

Celebrate the funny side of National Science Week when Jokers Comedy Club (Hobart) and Funnies at Frank's (Franklin) once again combine forces to bring you more science-themed hilarity with science comedians Ben McKenzie and Alanta Colley, plus a stellar support line-up each night. We each make an infinite number of choices every day – in relationships, in finance, in Buzzfeed quizzes. But how do we make them – and why are some of them so terrible? Fresh from their stint at the Melbourne International Comedy Festival, Alanta and Ben invite you to dive into your own psyche, paddle about in your subconscious and sun yourself on the deck chair of your hopes and fears as they explore the psychology behind the bad decisions we all make.

Wednesday 14 August, 8 – 10pm

Jokers Comedy Club
Polish Corner Cnr New Town & Augusta Rds, New Town

\$23+booking fee online, \$25 at the door (group discount also available online)
jokerscomedy.com.au/bookings

Thursday 15 August 8pm

Funnies at Frank's Cider Bar and Cafe
3328 Huon Highway, Franklin

\$23+booking fee online, \$23 at the door (group discount also available online)
trybooking.com/511923

frankscider.com.au/funnies-at-franks

DREAM BIG: ENGINEERING OUR WORLD FILM SCREENING

🍷 🍷

ENGINEERS AUSTRALIA

Narrated by Academy Award® winner Jeff Bridges, Dream Big: Engineering Our World is a first of its kind film originally made for IMAX® that will transform how we think about engineering. From the Great Wall of China and the world's tallest buildings, to underwater robots, solar cars and smart, sustainable cities, Dream Big celebrates the human ingenuity behind engineering marvels big and small, and reveals the heart that drives engineers to create better lives for people around the world. Chat with real-life Tasmanian engineers about what we do in the community and in our careers.

Thursday 15 August, 5:30 – 7:30pm

Dechaineux Theatre, University of Tasmania School of Creative Arts
Hunter Street, Hobart

tasmania@engineersaustralia.org.au

INDIGENOUS FILM NIGHT

🍷 🍷

ELIZABETH COLLEGE

Join us for a free screening of the award winning Australian film Rabbit Proof Fence and a presentation on indigenous science.

Friday 16 August, 6:20 – 8:30pm

Elizabeth College Theatre
256 Elizabeth Street, Hobart

Bookings appreciated:
elizabethcollege.tas.edu.au



14 SOUTHERN EVENTS

RESCUE TO RELEASE WORKSHOP



RAPTOR REFUGE

Have you seen an eagle up close? At this workshop, you'll meet the resident eagles, hawks, owls and more as you explore the Raptor Refuge and learn all about the rescue through to eventual release of injured raptors. Check out the huge flight aviaries, flight tunnel and the amazing education centre.

Saturday 17 August, 10am – 12pm

Raptor Refuge
Address available upon booking, located in Kettering

\$70 adults, \$30 children

Bookings essential:
raptorrefuge.com.au
(click on "How to Visit Us")

MATTER WITH SEAN O'CONNELL



MOONAH ARTS CENTRE

Join artist Sean O'Connell as he demonstrates the high voltage spark photography process seen in his exhibition "Matter". Sean's images allow a glimpse within, revealing the individual qualities and internal structures of everyday materials. This event is part of the exhibition "Matter", on display at the Moonah Arts Centre from Friday 2 August – Saturday 24 August.

Saturday 17 August, 1 – 2pm

Moonah Arts Centre
23-27 Albert Road, Moonah

Bookings essential: mac@gcc.tas.gov.au. Capacity is limited!

moonahartscentre.org.au

PEDAL POWERED CINEMA FOR A SUSTAINABLE FUTURE



TARREMAH STEINER SCHOOL

Come along and help pedal-power this cinema night! The Tarremah School are hosting positive film/s about the technological and community adjustments we can make for a sustainable future. Pedal-powered smoothies and popcorn available!

Saturday 17 August, 7 – 9pm

Tarremah Steiner School Hall,
Nautilus Grove, Huntingfield

Please bring a torch or light source,

as the carpark is not fully lit

\$5 per person on the door

0450 885 033

maree.bakker@epa.tas.gov.au

tarremah.tas.edu.au

RESHAPE THE WORLD: STUDENTS SHARING AND SUPPORTING SOLUTIONS



COLLEGE OF SCIENCES AND ENGINEERING, UNIVERSITY OF TASMANIA

Are you a young Tasmanian who is passionate about our planet? Are you interested in learning more about current threats to our environment and how you can be part of solving them? Perhaps you have some ideas to share? Bring your family along to this afternoon forum and let's work together to Reshape the World!

Sunday 18 August, 1:30 – 4:30pm

University Centre, University of Tasmania, Sandy Bay campus
Churchill Avenue, Sandy Bay

Bookings essential:
reshapetheworld.eventbrite.com.au
science.outreach@utas.edu.au

ABORIGINAL LAND MANAGEMENT SYMPOSIUM



GREENING AUSTRALIA

Greening Australia, along with Aboriginal educators and land holders, invite you to join historian and author Bill Gammage, The Biggest Estate on Earth: How Aborigines Made Australia, for an Aboriginal land management symposium.

The Midlands is Tasmania's only biodiversity hotspot - learn how Greening Australia is restoring the landscape at scale with support from landholders and Aboriginal land management techniques.

The Symposium will also include a walk on the Aboriginal Patrol Trail at Mt Nelson.

Tuesday 20 August, 12 – 4pm

Sustainability Learning Centre
50 Olinda Grove, Mt Nelson

General: \$20.00, Concession: \$15.00,
Aboriginal Community and Greening Australia Members: Free

To register for these events, contact Nel Smit: nsmit@greeningaustralia.org.au

facebook.com/GreeningAustralia

This event follows a field day in Ross (page 17).

MORE SCIENCE, MORE AWARENESS MINI CONFERENCE



ELIZABETH COLLEGE

You're invited on campus to see students from Elizabeth College and invited guests present results from their independent scientific research. Let the students amaze you with their passion for science – you'll never believe what young minds can come up with!

Thursday 12 September,
11:00am – 1pm

Elizabeth College Undercroft
256 Elizabeth Street, Hobart

elizabethcollege.tas.edu.au

FLY ME TO MARS: SCIENCE POSTER COMPETITION

ELIZABETH COLLEGE

Open to all Southern Tasmanian students K – 12, this year's theme is Fly Me to Mars. Posters visually representing scientific research will be displayed at the More Science, More Awareness Mini Conference on 12 September. Entries will be judged on their STEM content on a people's choice basis. The winning entry will receive \$100 prize money and an additional \$100 for the student's school. Book prizes will also be awarded. Winners will be announced at the conference.

Please submit your entry by 8 August 2019 to the Elizabeth College Office:

256 Elizabeth Street, Hobart, 7000

elizabethcollege.tas.edu.au

YOUNG TASSIE SCIENTISTS

SHARING THEIR SCIENCE STORIES IN CLASSROOMS AND AT SCIENCE FESTIVALS RIGHT ACROSS TASMANIA - FROM FLINDERS TO BRUNY ISLAND, STRAHAN TO SMITHTON, AND EVERYWHERE IN BETWEEN! FIND THE 2019 TEAM AT YOUNGTASSIESCIENTISTS.COM

MEET THIS YEAR'S 29 YOUNG TASSIE SCIENTISTS AT SCIENCE WEEK EVENTS NEAR YOU!

Weird Science Story Bar (page 12)
TastroFest in Ulverstone (page 18)
Science Street Party (page 4)
Beaker Street @ TMAG (page 10)

In Darwin's Footsteps (page 12)
Festival of Bright Ideas (page 6)
Science in the Pub in Zeehan (page 19)
NEON - DRILL Dance (page 13)

KELSEY PICARD

BUDDING SCIENTIST – SCHOOL OF NATURAL SCIENCES, UNIVERSITY OF TASMANIA @KELSEYONSCIENCE

Kelsey loves studying plants, and uses genetics to work out how they know if it is night or day, spring or autumn and when to make fruit. Meet Kelsey at the Festival of Bright Ideas, BeakerStreet@TMAG and Science in the Pub (West Coast).

CHELSEA LONG

ICY TIME TRAVELLER – INSTITUTE FOR MARINE AND ANTARCTIC STUDIES, UNIVERSITY OF TASMANIA

Chelsea's dream of being a glaciologist came true when she went to Antarctica to collect and study ice cores of her very own! Come talk cool science with Chelsea at the Festival of Bright Ideas and Tastrofest in Ulverstone.

MATTHEW FIELDING

RAVEN ABOUT BIRDS – SCHOOL OF NATURAL SCIENCES, UNIVERSITY OF TASMANIA @MATTFIELDING

Matthew is studying endangered and extinct birds of the Bass Strait islands – including the dwarf emu! You can chat birds with Matt at Science in the Pub (West Coast) and BeakerStreet@TMAG.

NIAMH CHAPMAN

AN APP A DAY KEEPS THE DOCTOR AWAY – MENZIES INSTITUTE FOR MEDICAL RESEARCH, UNIVERSITY OF TASMANIA @NCHAPMANTAS

Niamh is using technology to help doctors and patients work together to prevent heart attacks and strokes. Want to hear how? Meet Niamh at Beaker Street @ TMAG, the Festival of Bright Ideas, Science in the Pub (West Coast) and the Science Street Party Hobart.

This project received grant funding from the Australian Government as part of National Science Week and is run by the University of Tasmania.



SCIENCE OPEN SEASON AT QVMAG

SATURDAY 10 - FRIDAY 16 AUGUST

Queen Victoria Museum and Art Gallery has a week of science fun for people of all ages and interests! There will be plenty of astronomy, including a talk on the anniversary of the Apollo missions to the moon – will we ever go back? Get mad keen on science with the crazy scientist, enjoy a spectacular dinosaur display, see a range of electric vehicles and find out about the problems with plastics. Watch the museum's natural sciences team sorting and identifying spiders and insects, and conserving birds and mammals and bones. Plus, lots more!

SPEAKER PROGRAM

This year QVMAG is delighted to have several excellent speakers discussing their research. The speaker program is supported by Friends of the QVMAG, the University of Tasmania, and the Royal Society of Tasmania.

For booking details and more information visit qvmag.tas.gov.au/events

MARTIN GEORGE ASTRONOMER, QVMAG

THE APOLLO MISSIONS TO THE MOON

Hear about the Apollo missions to the Moon and how NASA plans to send people there once again by 2024.

Saturday 10 August, 6:30pm – Part of Nights at the Museum

PATSY CAMERON CULTURAL GEOGRAPHER

ABORIGINAL SCIENCE: STORIES OF OUR SKY COUNTRY

Saturday 10 August, 7:15pm – Part of Nights at the Museum

ROYAL SOCIETY LECTURE

BREAKING NEW GROUND: PRESENTATIONS BY FOUR PHD CANDIDATES

Sunday 11 August, 1:30pm

JOHN GOODERHAM TAME FRESHWATER ECOLOGIST WATERBUG BLITZ

Find out what a Waterbug Blitz is and learn how to identify creatures that you can find in the water.

Tuesday 13 August, 10:30am

BRITTANY TRUBODY SCIENTIST AND HISTORIAN

WHEN SPACE AND EARTH COLLIDE: IMPACT STRIKES AND EXTINCTION EVENTS*

"Rang the earth like a bell!" How better to describe what happens when a large astral body slams into our planet? Looking at the earth's history we can see where some of these strikes really made an impact – and BIG ones at that!

*Spoiler alert, ALL dinosaurs were harmed in this production.

Friday 16 August, 6:30pm – Part of Nights at the Museum

DR JENNIFER LAVERS INSTITUTE FOR MARINE AND ANTARCTIC STUDIES

THE ACCUMULATION OF SINGLE-USE, DISPOSABLE PLASTIC ITEMS ON REMOTE ISLANDS

Dr Lavers discusses her investigative science and how what she has learned may help clean up our environment.

Friday 16 August, 7:15pm – Part of Nights at the Museum

EVENING DEBATE

SPACE VS. SPECIES: THE GOOD, THE BAD AND THE UGLY

Friday 16 August, 8:15pm – Part of Nights at the Museum

BIG DAY OF SCIENCE

Find out about the science behind our everyday lives. Meet the specialists from QVMAG, the City of Launceston, Plastic-Free Launceston, TasWater, the University of Tasmania, Tamar NRM, the Australian Electric Vehicle Association, and more. Extra Planetarium shows will be presented, including the museum's new show Capcom Go! about the Apollo missions to the Moon. Education specialists will be running Mission Space, a collection of fun space-related activities. The Crazy Scientist will be there, and Dinosaur rEvolution will amaze you!

Saturday 10 August, 10am – 4pm

SUNDAY SCIENCE

The fun continues on Sunday 11 August including: the Sunday planetarium shows; education activities; and you can try building a lunar rover! Natural Sciences staff will show their work with a variety of creatures. Bring your questions and don't forget to ask them what owls eat!

Sunday 11 August, 10am – 4pm

NIGHTS AT THE MUSEUM

Nights at the Museum have been extremely popular with people of all ages over the past few years. There is something special about being in the museum at night! QVMAG galleries will be open including the spectacular Dinosaur rEvolution exhibition. Weather permitting, telescopes aimed at the Moon, planets and the features of the starry sky will be available — see the rings of Saturn! Representatives from the Van Diemen Project will be there to encourage visitors to discuss bright ideas in science, and don't forget to check out the speaker program.

Saturday 10 and Friday 16 August, 6 – 9pm



SPEAKER PROFILE DR JENNIFER LAVERS

Dr Jennifer Lavers is a research scientist from the University of Tasmania's Institute for Marine and Antarctic Studies (IMAS). She specialises in marine eco-toxicology, with expertise in tropical and temperate seabird ecology, invasive species management, and marine debris plastic pollution.

Dr Lavers made headlines with her work from Australia's remote Cocos (Keeling) Islands, which she revealed was home to an astonishing 414 million pieces of plastic pollution, largely consisting of consumer items including bottle caps, straws, shoes and thongs. She points out that this is a conservative estimate. In May 2017 Dr Lavers also made news, revealing that beaches on remote Henderson Island in the South Pacific had the highest density of plastic debris reported anywhere on Earth.

Dr Lavers is especially interested in exploring ways the research community can effectively engage the broader public in science and conservation.

See Jennifer speak at Science Open Season (page 16)

CURIOUS CLIMATE TASMANIA

CENTRE FOR MARINE SOCIOECOLOGY

Speak with some of Tasmania's brightest science minds about climate change issues that are most important to residents in Northern Tasmania. Answers to some of the most popular questions submitted through an ABC Radio call-out will be revealed, plus live Q&A with University of Tasmania and CSIRO scientists.

LAUNCESTON

Tuesday 6 August, 6 – 7:30pm

Rory Spence Lecture Theatre, University of Tasmania, Inveresk campus, 2 Invermay Road, Launceston

Bookings appreciated: curiousclimate.org.au

ST HELENS

Wednesday 7 August, 6 – 7:30pm

Bayside Inn, 2 Cecilia Street, St Helens

Bookings appreciated: curiousclimate.org.au

KITCHEN SCIENCE AND AMAZING CHOCOLATE CREATIONS



CHOCOLATE WINTERFEST

Be prepared for an exciting journey of discovery in the chocolate kitchen with science guru Rob and Kitchen marvel Nat as they create tasty treats and explain the science behind them. You may even be "lucky" enough to be asked to help but will you be game enough to try these treats?

Sunday 11 August

Session 1: 11 – 11:30am

Session 2: 2 – 2:30pm

St Patrick's School Hall
55 Bradshaw Street, Latrobe

\$2 per person

enquiries@chocolatewinterfest.com.au
chocolatewinterfest.com.au

BREAKING NEW GROUND

ROYAL SOCIETY OF TASMANIA NORTHERN CHAPTER

Come and listen to a forum of University of Tasmania PhD students discuss their exciting research. Find out what's happening right in your backyard and why local science is so important. Get the answer to the burning question: what are they really doing behind the walls of that University?

Ravichandra Vemuri - Microbiome: The new clinical frontier

Matthew Taylor - Socio-ecology of wildlife conservation on private land

Rachael Sanders - Changes in surface waters of the Southeast Pacific and beyond

Rajesh Raj - Dilemmas of older people facing dialysis

Sunday 11 August, 1:30 – 2:30pm

QVMAG Inveresk
2 Invermay Road, Launceston
rst.org.au

BRIGHT SCIENCE IDEAS: SPEED PITCH NIGHT

STARTUP TASMANIA / QVMAG

Do you have a bright idea? You're invited to pitch just about anything as long as it's under two minutes long - bring your innovative science and tech ideas! Present to a group of other start-uppers, mentors and peers in a relaxed and fun environment. You might even win a prize!

Friday 16 August, 6:30 – 7:30pm

Auditorium, Queen Victoria Museum and Art Gallery, 2 Invermay Road, Inveresk

RSVP: vandiemenproject.com.au/events

03 6349 1919

info@vandiemenproject.com.au

ABORIGINAL LAND MANAGEMENT MIDLANDS BIODIVERSITY HOTSPOT FIELD DAY



GREENING AUSTRALIA

Join Bill Gammage, historian and multi-award-winning author of The Biggest Estate on Earth: How Aborigines Made Australia, Aboriginal educators, and leading ecologists in the Midlands biodiversity hotspot for a day on Country exploring Aboriginal land and restoration management.

Sunday 18 August, 8am – 4pm

Beaufront, Beaufront Road, Ross

General: \$50, Concession: \$30,
Aboriginal Community and Greening Australia Members: Free

Bookings essential:
nsmit@greeningaustralia.org.au
facebook.com/GreeningAustralia

SEAHORSE WORLD FREE DEVONSHIRE TEA*

Buy a full-priced adult ticket to Seahorse World during Science Week and receive a free Devonshire Tea in the Cormorant Café!

Seahorse World provides a hands-on, engaging experience for visitors wanting to learn about these wonderful creatures.

Seahorse World and the Cormorant Café
Shed 1A Inspection Head Wharf, 200 Flinders Street, Beauty Point

03 6383 4111
info@seahorseworld.com.au
seahorseworld.com.au
#seahorseworld

**Terms and conditions: valid with original coupon only. One Devonshire Tea per coupon. Offer valid 10-18 August 2019 only. Not valid with any other deal or voucher.*



NORTHWEST AND WESTERN EVENTS

TASTROFEST



THURSDAY 1 – SATURDAY 3 AUGUST

HEAD TO ULVERSTONE FOR AUSTRALIA'S LARGEST ASTRONOMY FESTIVAL AND CELEBRATE THE 50TH ANNIVERSARY OF THE MOON LANDING.

- CHECK OUT A REPLICA OF THE APOLLO 11 COMMAND MODULE
- LIVE STREAM DIRECTLY WITH THE NASA TEAM IN HOUSTON USA

AND THAT'S NOT ALL!

- Come dressed up as your favourite sci-fi heroes or scour the op-shops for your best 1960s look
- Check out film screenings in the planetarium and on the big screen or meet a stormtrooper for photo opportunities
- Hear from the experts: a full program of talks covering how the moon was formed or if humans can grow plants on other planets
- Test your skills as an Apollo 11 astronaut in VR and see NASA displays and live science shows.
- The astrophotography gallery will also be on show where you can take home your own spectacular images.

Enjoy three astronomical days as part of a school group or as a curious guest – there's something for everyone!

Like the Facebook page for updated information as activities are added and visit the website for the full schedule of events.

tastrofest.com
@Tastrofest on Facebook, Twitter and Instagram

CURIOUS CLIMATE TASMANIA

CENTRE OF MARINE SOCIOECOLOGY

Speak face-to-face with some of Tasmania's brightest science minds about climate change issues that are most important to residents on the West Coast. Answers to some of the most popular questions submitted through an ABC Radio call-out will be revealed, plus live Q&A with University of Tasmania and CSIRO scientists.

Sunday 4 August 4 – 5:30pm

Empire Hotel
2 Orr Street, Queenstown

Bookings appreciated:
curiousclimate.org.au

NATIONAL SCIENCE WEEK QUIZ FOR TASMANIACS



SCIENCE TEACHERS ASSOCIATION OF TASMANIA

The official Tasmanian National Science Week quiz heads north for the first time ever! Grab a team and test your knowledge in this fun, science themed quiz.

50 years on from the lunar landing there still is no planet B? Ever wondered what a puggle eats or how many women have landed on the moon? These questions and more shall be answered along with fun games for all ages.

Monday 5 August, 6:30 – 9pm

Penguin Surf Life Saving Club
68 Preservation Drive
Preservation Bay, Penguin

\$5 adult; \$3 concession/students
BYO Food. Drinks at bar prices.
Entry fee at door.

Bookings essential:
trybooking.com/BDMEQ
stat.org.au

DARK, CREEPY, COOL: SIXTEEN LEGS FILM SCREENINGS

MARAKOOPA CAFE

Enjoy a screening of SIXTEEN LEGS, a nature documentary like no other set in a magical underground ecosystem hidden beneath one of the world's last great wildernesses. With spectacular imagery and a dark-fantasy twist, this real-world "Charlotte's Web" capitalises on master story-teller Neil Gaiman's global popularity to bring a story of stability and solitude into our world of rapid change.

Before or after your movie, consider visiting Mole Creek Caves which are just moments away from the cafe. Maybe you can spot a giant prehistoric spider!

Saturday 10 - Sunday 18 August

Screening Times:

Sat 10 August, 12pm - Sun 11 August, 2pm
Mon 12 August, 12pm - Tues 13 August, 2pm
Wed 14 August, 12pm - Thu 15 August, 2pm
Fri 16 August, 6pm - Sat 17 August, 12pm & 6pm
Sun 18 August, 2pm

Marakoopa Cafe, 186 Mayberry Road
(Close to Mole Creek Caves Ticket Office),
Mayberry

Movie tickets: \$12 adults,
\$8 children under 12

Bookings essential: marakoopacafe.com

JUNIOR WILDLIFE KEEPER



WING'S WILDLIFE PARK

This Junior Keeper Experience offers the unique opportunity for children aged 6 to 14 to get hands-on and experience behind the scenes action at Wing's Wildlife Park by:

- engaging with wildlife and the keepers who manage them;
- assisting with food preparation and maintenance of wildlife enclosures.

Saturday 10 and Sunday 11 August
10:15am – 1pm

Wings' Wildlife Park
137 Winduss Road, Gunns Plains

\$65 per child (includes lunch)
Bookings essential: 03 6429 1151.
Capacity is limited!

wingswildlifepark.com.au

CIRCULAR HEAD SCIENCE GIG 2019 - MOON MADNESS



CIRCULAR HEAD COUNCIL

The Circular Head Science Gig 2019 is a free, family-friendly, fun event with displays, hands-on experiments, activities and competitions for everyone. Come and check out the competition entries and make a team to compete in the Macgyver Challenge. Lots to do and see!

Monday 12 August, 5:30 – 8pm

Circular Head Community
& Recreation Centre
72 Nelson Street, Smithton
facebook.com/CHScienceGig

THE MAGIC OF SCIENCE



BURNIE LIBRARY

Come and explore four fun science experiments including water fireworks, magic milk, bouncy balls and lava lamps.

Wednesday 14 August, 3:30 – 4:30pm

Burnie Library
30 Alexander Street, Burnie

Bookings are required.
Contact Burnie Library on 03 6477 7400.
For children aged 5+.

facebook.com/BurnieLibrary

MOUNTAIN HEIGHTS SCHOOL SCIENCE FAIR



MOUNTAIN HEIGHTS HIGH

Come to this community showcase of the projects undertaken by Year 6-10 students for the University of Tasmania Science and Engineering Investigation Awards and Primary Space Science projects. See what these clever students have discovered! There will also be a morning tea, BBQ and assembly to announce the winners.

Thursday 15 August, 11am – 1pm

Mountain Heights School Gymnasium
and Student Centre
81 Conlan Street, Queenstown

Please RSVP: andrea.stanley@education.tas.gov.au

facebook.com/mountainheightsschool

CREATING A FROG FRIENDLY GARDEN



CRAIG BROADFIELD

Meet some live Tassie frogs, listen to experts, and enjoy an educational event that will explain the ecosystems required for frogs and what our community can do to provide backyard habitats for our native fauna. Get your hands dirty and learn how to create and maintain a frog-friendly garden.

Friday 16 - 17 August, 10am – 4pm

Bannon Carpark
23 Edward Street, Ulverstone
craig@tassie.net.au

MAKERX BURNIE - BUILD. CREATE. LEARN. INNOVATE!



UNIVERSITY OF TASMANIA

An exciting "Show & Tell" from the local maker community – a melting pot of scientists to crafters, engineers and manufacturers to artists, and school groups to hobbyists! Enjoy a day of demonstrations and hands-on activities showcasing our traditional roots, manufacturing prowess, and digital future.

Sunday 18 August, 11am – 3pm

Burnie Arts and Function Centre
77-79 Wilmot Street, Burnie

Bookings appreciated:
utas.edu.au/makerx
makerx.burnie@utas.edu.au

INVENTING TOMORROW: FILM SCREENING



UNIVERSITY OF TASMANIA

Be inspired by some of the world's greatest young minds – follow six young scientists from around the globe as they create environmentally conscious projects to compete at the International Science and Engineering Fair (ISEF). There will be an introduction and Q&A with 2017 ISEF representative, Lachlan Dick.

Sunday 18 August, 1pm

Burnie Arts and Function Centre
77-79 Wilmot Street, Burnie

Bookings recommended:
utas.edu.au/makerx
makerx.burnie@utas.edu.au

SCIENCE IN THE PUB



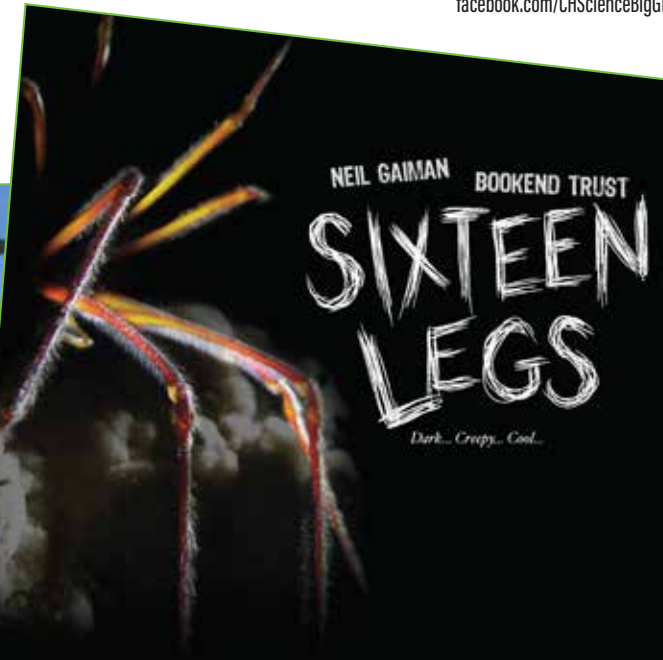
UNIVERSITY OF TASMANIA

Experience this inaugural West Coast Science in the Pub event and meet some of Tassie's emerging young scientists. Hear about extinct and endangered birds like dwarf emus, find out what makes flowers grow, and discover an app that can help doctors predict heart failure – all research being conducted by Young Tassie Scientists! Grab a beverage and enjoy science in a fun, relaxed environment.

Thursday 29 August, 6 – 7:30pm

Heemskirk Hotel
1/25 Main Street, Zeehan

Bookings appreciated:
vikki.iwanicki@utas.edu.au



20 STATEWIDE EVENTS

UNIVERSITY OF TASMANIA OPEN DAY



YOUR CHANCE TO EXPERIENCE A TASTE OF UNIVERSITY LIFE, TALK TO STAFF AND STUDENTS, AND FIND THE RIGHT COURSE FOR YOUR CAREER.

Do you have a fascination for the world, life on it, and our part in it? If you are driven to discover, to meet new challenges, and you're filled with a desire to create something new, studying science can help you realise your ambitions and turn your curiosity into a career.

A science degree is one of the most sought-after university qualifications and offers an amazing world of career opportunities.

At Open Day you will have the chance to explore labs, libraries, lecture theatres, and more. You will hear what university life is like from the experts: students, staff, and graduates.

There will be information on study options, scholarships, pathways, and careers. There will also be a range of exciting activities, informative presentations and demonstrations, food, entertainment, and giveaways. Come along to this year's Open Day to be informed, inspired, and motivated to start your higher education journey.

South: Sunday, 4 August, Sandy Bay and Hobart campuses

North : Saturday, 10 August, Newnham and Inveresk campuses

Cradle Coast: Sunday, 11 August, Cradle Coast campus

Sydney: Sunday 1 September, Rozelle and Darlinghurst campuses

For more details including tours, show, and talk times, visit utas.edu.au/openday

GREAT AUSSIE BIOQUEST



GREAT AUSSIE BIOQUEST

It's free to join the adventure.

Celebrate National Science Week this year by playing a game - and competing for your state or territory.

Have fun, win prizes, and contribute to biodiversity research and education.

More info at greataussiebioquest.com

Get the game at questagame.com - available for Apple and Android devices.

10 - 18 August

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, mathematic 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

FIND THE WORD!

Hidden in this word jumble are words related to the events listed in this program. How many can you find? Circle each one.

I	N	V	E	S	T	I	G	A	T	I	O	N	T	A
E	H	D	A	N	R	H	E	N	B	K	S	E	E	I
N	R	A	I	E	G	F	T	L	F	P	C	R	C	N
E	N	E	K	N	I	I	A	K	H	R	I	U	H	A
O	L	A	M	L	O	C	N	Y	B	F	E	T	N	M
N	E	B	D	O	K	S	S	E	A	H	N	A	O	S
B	A	L	G	B	L	I	A	E	E	X	C	N	L	A
S	I	R	U	T	C	E	E	U	T	R	E	U	O	T
W	D	R	V	S	X	W	T	N	R	A	I	A	G	K
L	N	O	I	T	N	E	V	N	I	M	M	N	Y	T
W	A	T	E	R	B	U	G	V	W	M	A	I	G	O
X	Y	B	P	H	O	H	C	N	O	V	S	K	L	C
C	I	T	S	A	L	P	B	O	T	A	N	Y	E	C
X	X	Y	K	E	T	R	N	N	F	T	T	L	H	R
B	K	Y	M	O	X	Z	H	V	C	I	M	R	Q	T

SCIENCE WEEK QUIZ NIGHT SNEAK PEEK

For those attending the Science Week Quiz Nights, here are your special advanced questions! Bring your answers with you to the Quiz to get an edge on the competition. If you're not going, you can still have a crack at testing your own science knowledge.

1. Name a 2019 National Science Week event that is related to climate or pollution. (Hint: there's a lot in this very program!)
2. This year Earth celebrates the 50th anniversary of humans visiting the moon for the very first time, way back in July 1969. What was the name of the spacecraft that took Neil Armstrong, Buzz Aldrin and Michael Collins to the moon?
3. Definitely not designer dogs, what are baby echidnas called?

Book your spot at your local quiz night: Penguin Quiz, page 18. Hobart Quiz, page 5.

NATIONAL SCIENCE WEEK IN TASMANIA IS COORDINATED BY A DEDICATED VOLUNTEER COMMITTEE. WITH THANKS TO OUR MEMBERS:

Dr Adele Wilson, University of Tasmania
/Young Tassie Scientists

Andy Baird, Tasmanian Museum & Art Gallery

Bianca Deans, Tourism Tasmania

Dr Ben Arthur, CSIRO

Brittany Trubody, TastroFest

David Mossop, Institute for Marine and Antarctic Studies

Dr Martin George, Queen Victoria Museum and Art Gallery

Dr Denise Devitt, Science Teachers Association of Tasmania

Dr Deborah Beswick, Elizabeth College

Elsie Killick, Engineers Australia

Jeannie Marie LeRoi, University of Tasmania

Jenni Klaus, University of Tasmania

Jenny Dudgeon, Sustainability Learning Centre

Dr Lisa Cawthen, City of Hobart

Lyndal Bond, University of Tasmania

Dr Margo Adler, BeakerStreet@TMAG

Niamh Chapman, Menzies Institute for Medical Research, University of Tasmania

Peter Wright, Department of Education

Rob Armstrong, City of Hobart

Sarah Bayne, University of Tasmania

Susie Haley, University of Tasmania

Trish Hodge, mina-nina

Wayne Goninon, University of Tasmania

THANKS ALSO TO THE HUNDREDS OF ORGANISATIONS, BUSINESSES AND INDIVIDUALS WHO HAVE CREATED SPECTACULAR, DIVERSE AND INCREDIBLY INSPIRING NATIONAL SCIENCE WEEK EVENTS THIS YEAR!

ANSWERS: Word jumble: beaker, blackburn, dinosaur, climate, plastic, science, tasmania, technology, telomere, waterbug, wildlife.
1. See program, judge's discretion. 2. Apollo 11. 3. Puggles.

TASMANIAN STEM EXCELLENCE AWARDS 2019

APPLICATIONS OPEN AUGUST 9

Tasmanians who have excelled in science, technology, engineering and mathematics (STEM), STEM teaching or STEM communication are invited to apply for:

The Premier's Tasmanian STEM Researcher of the Year Award (\$10,000)

The Minister's Tasmanian STEM Innovation of the Year Award (\$5,000)

The Tasmanian STEM Teacher of the Year Awards for Primary and Secondary Teachers (\$5,000)

The Tasmanian STEM Communicator of the Year Award (\$5,000)

The Tasmanian STEM Young Researcher of the Year Award (\$5,000)

APPLICATIONS CLOSE FRIDAY 27 SEPTEMBER 2019
APPLICATION FORM AND GUIDELINES STATEGROWTH.TAS.GOV.AU
CONTACT SARAH.BAYNE@UTAS.EDU.AU



INSPIRING TASMANIA

CONNECTING SCIENCE AND COMMUNITY

CONNECTING SCIENCE AND COMMUNITY

INSPIRING TASMANIA IS HERE! REPLACING WHYSCI, THE NEW WEBSITE STILL FEATURES YEAR-ROUND SCIENCE EVENTS AND RESOURCES DESIGNED TO CONNECT SCIENCE AND COMMUNITY ACROSS TASMANIA. THERE IS TRULY SOMETHING FOR EVERYONE!

Inspiring Tasmania's mission is to foster a society that is inspired by, and values, scientific endeavour; attracts increasing national and international interest in its science; critically engages with key scientific issues; and encourages young people to pursue scientific studies and careers.


Become a citizen scientist - participate in major research projects, often from the comfort of your own home. Find science experiences that provide opportunities to enjoy science all year like museums, parks, and wildlife sanctuaries. There's even a list of science clubs for the curious of all ages.

GET INSPIRED AT INSPIRINGTAS.ORG.AU!







































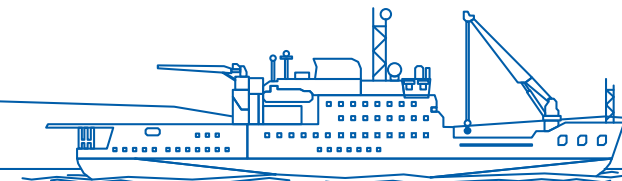
EVENT QUICK GUIDE

Key to Events:








 Children's University	 Dinner/Food	 Film	 Talk
 Community Expo	 Exhibition	 Performance	 Tour
 Competition	 Family	 Outdoor	 Workshop
	 Festival	 Online	

SOUTHERN EVENTS













Date	Event		Page
Sat 3 Aug	Science Street Party		4
Sun 4 Aug	A Healthy Catchment for Hobart's Drinking Water		4
Tues 6 Aug	How Neutrons Can Save The World!		4
Tues 6 Aug	Huon Valley Stem Expo		4
Wed 7 Aug	Botanical Art – Microscopes, Leaves and Photography		4
Thu 8 Aug	Curious Climate Tasmania - Hobart		4
Thu 8 Aug	Family Stem Evening at the A-Lab		4
Sat 10 Aug	Australian of The Year: Craig Challen		5
Sat 10 Aug	Blueprints of Nature		4
Sat 10 Aug	Festival of Bright Ideas		6-9
Sun 11 Aug	Painting a Changing World: How Art and Science Can Speak Together in a Time of Environmental Change		5
Mon 12 Aug	Walking Through Iceland: Lessons in Vegetation and Volcanoes		5
Tue 13 Aug	Into The Vaults – An Evening at The State's Zoology Collection		5
Tue 13 - Wed 14 Aug	Lego at The Library		5
Tue 13 Aug	Marine Plastics: Finding Solutions by Linking Science and Community		5
Tue 13 Aug	National Science Week Quiz for Tasmanians		5
Wed 14 - Thu 15 Aug	#Scipubimpro - Where Science Meets Impro Theatre!		13
Wed 14 Aug	Comedy Stands Up for Science! New Town		13
Wed 14 Aug	Destination St Brigid's		13
Wed 14 Aug	Into The Vaults - An Evening at The Tasmanian Herbarium		13
Wed 14 - Sat 17 Aug	Neon		13
Wed 14 Aug	Waterbug Wonderland		13
Thu 15 Aug	Comedy Stands Up for Science! Franklin		13
Thu 15 Aug	Dream Big: Engineering Our World Film Screening		13
Fri 16 - Sat 17 Aug	Beakerstreet@TMAG		10-11
Fri 16 Aug	Indigenous Film Night		13
Fri 16 Aug	The Science of Chocolate Making		12
Sat 17 Aug	Antarctic Tales at Mawson's Huts		12
Sat 17 Aug	In Darwin's Footsteps		12
Sat 17 Aug	Matter With Sean O'connell		14
Sat 17 Aug	Pedal Powered Cinema, for a Sustainable Future		14
Sat 17 Aug	Rescue To Release Workshop		14
Sat 17 Aug	Weird Science: The Petri Dish at The Bottom of The World		12
Sun 18 Aug	Reshape The World: Students Sharing and Supporting Solutions		14
Tues 20 Aug	Aboriginal Land Management Symposium		14
Thu 12 Sept	More Science, More Awareness Mini Conference		14







NORTHERN EVENTS

Date	Event		Page
Tues 6 Aug	Curious Climate Tasmania - Launceston		17
Wed 7 Aug	Curious Climate Tasmania - East Coast		17
Sat 10 - Fri 16 Aug	Science Open Season		16
Sun 11 Aug	Breaking New Ground		17
Sun 11 Aug	Kitchen Science and Amazing Chocolate Creations		17
Fri 16 Aug	Bright Science Ideas: Speed Pitch Night		17
Sun 18 Aug	Aboriginal Land Management Midlands Biodiversity Hotspot Field Day		17

NORTHWEST AND WESTERN EVENTS

Date	Event		Page
Thu 1 - Sat 3 Aug	Tastrofest		18
Sun 4 Aug	Curious Climate Tasmania - West Coast		18
Mon 5 Aug	National Science Week Quiz For Tasmanians		18
Sat 10 - Sun 18 Aug	Dark, Creepy, Cool. Movie Screening of Sixteen Legs		18
Sat 10 - Sun 11 Aug	Junior Wildlife Keeper		19
Mon 12 Aug	Circular Head Science Gig 2019 - Moon Madness		19
Wed 14 Aug	The Magic of Science		19
Thu 15 Aug	Mountain Heights School Science Fair		19
Fri 16 - Sat 17 Aug	Creating a Frog Friendly Garden		19
Sun 18 Aug	Inventing Tomorrow – Film Screening		19
Sun 18 Aug	MakerX Burnie		19
Thu 29 Aug	Science in The Pub		19

STATEWIDE EVENTS

Date	Event		Page
Sun 4 Aug	University of Tasmania Open Day - South		20
Sat 10 Aug	University of Tasmania Open Day - North		20
Sun 11 Aug	University of Tasmania Open Day – Cradle Coast		20
Sun 1 Sep	University of Tasmania Open Day - Sydney		20

YOU CAN PARTICIPATE IN NATIONAL SCIENCE WEEK IN AUGUST 2020!

THE TASMANIAN NATIONAL SCIENCE WEEK COORDINATING COMMITTEE INVITES TASMANIAN BUSINESSES, COMMUNITY GROUPS, SCIENTISTS, SCHOOLS AND MEMBERS OF THE PUBLIC TO CREATE EVENTS FOR THE 2020 PROGRAM.

Funding of up to \$20,000 is available through the national grant round, which opens again in October and is a wonderful opportunity to bring larger projects to life.

Local funding is available each year, supporting community and school events throughout Tasmania.

Queries to Sarah.Bayne@utas.edu.au



Cover art by Rory Dick. See Rory live paint Professor Elizabeth Blackburn at the Science Street party! (page 4).



The events listed are free of charge unless otherwise stated. Details correct at time of printing but are subject to change. For up-to-date information please visit scienceweek.net.au or download the mobile app on the Apple App or Google Play Stores.