

Welcome to

NATIONAL SCIENCE WEEK TASMANIA

Most events are free unless otherwise stated.
Please check event websites for up to date information.

The Tasmanian National Science Week committee acknowledges the Traditional Custodians of lutruwita, Tasmania and respects the palawa/pakana people for their culture and knowledge systems. We pay our respects to Elders past and present and thank all the community members who are assisting in the delivery of the state-wide program in 2021.

FROM PROFESSOR EMERITA ELIZABETH BLACKBURN

Nobel Laureate and Patron of Science Week Tasmania

From the beaches of Snug, Tasmania, to the world stage, our Patron of National Science Week Tasmania, Professor Blackburn has never lost her tendency to be curious.

Now based at the University of California, San Francisco, Professor Blackburn is a leader in the area of telomere and telomerase research. She discovered the molecular nature of telomeres – the ends of chromosomes that serve as protective caps essential for preserving the genetic information and what makes us, us! Professor Blackburn and her research team at the University of California, San Francisco are working with various cells including human cells, with the goal of understanding more about this key part of our biology.

The Tasmanian National Science Week Coordinating Committee would like to extend a sincere thank you to Professor Emerita Elizabeth Blackburn for her patronage of Science Week in Tasmania over the past three years. Professor Blackburn epitomises the joy that a life-long curious mind can bring, and the impact that Tasmanians can have across the word.

Dr Ben Arthur

Chair, Tasmanian National Science Week Coordinating Committee scienceweek.net.au/tas-meet-elizabeth-blackburn

FROM THE MINISTER

Hon Michael Ferguson MP, Minister for Science & Technology

Science Week is our opportunity to recognise the crucial role that science plays in our world, and equally, to celebrate the small wonders that inspire the journey. From our youngest citizens to our most distinguished scientists and researchers - engaging all Tasmanians in Science, Technology, Engineering and Mathematics (STEM) has always been a key priority for the Tasmanian Liberal Government.

Advances in science and technology unlock major competitiveness gains and growth, as well as create new industries and markets for the Tasmanian economy. One exciting example of this is our emerging space industry. Space exploration represents a pinnacle of scientific and technological endeavour and Tasmania has a proud history of engagement in the global space industry activity through communication, tracking, space human research and support.

Our Government is continuing to contribute to the nation's ambitions in space through the signing of a Memorandum of Understanding with the Australian Space Agency. A new partnership has also been forged between the state, the University of Tasmania and HENSOLDT, a global leader in space radar technology. Both will position Tasmania as the prime location for space tracking and as a leader of Australia's sovereign Space Domain Awareness canability.

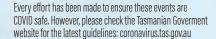
Science Week in Tasmania is your ticket to meet the scientists, participate in the experiments, discuss the hot topics and celebrate the discoveries.

Why not head along to the Festival of Bright Ideas at the Princes Wharf 1, or watch Secret Lab build an Al live on stage using video game technology in Launceston? Dr Karl is returning to Tasmania for a state-wide tour, or if you'd prefer to participate online you could stream the ExBEERimental Science live tasting panel event from home. Keep an eye out for the Young Tassie Scientists who will be touring the state in August visiting schools with entertaining presentations and hands-on activities spanning all the different streams of STEM.

There is something for everyone during Science Week, with events taking place online and in person right across the state. My sincere thanks go to the wonderful people who are hosting events, engaging with new audiences and showcasing science to their communities.

Together with our distinguished Patron, Dr Elizabeth Blackburn, I welcome you to Science Week 2021, and encourage you to seek out the many wondrous opportunities open to you in this year's program. Let curiosity be your guide.

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 that works with event holders to develop, produce and promote a state-wide program of events.



Key to Events:

Children's University

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Film Screening

Community Expo

Food/Drink

Exhibition

Outdoo

Performance

A Family

₹ Tour

Workshop

EVENTS NEAR YOU

DR KARL'S GREAT MOMENTS IN SCIENCE

Launceston: Thursday 12 August Hobart: Saturday 14 August

Dr Karl is returning to Tassie. See page 15 for more details

BEAKER STREET FESTIVAL

Friday 6 - Saturday 14 August

Life on Mars, Science Photography Prize, Dark Sky Party, Tassie Science Road Trip, Sci Art Crawl, and 150 scientists

ABOUT OUR COVER ARTIST

Rubie Gallagher is a Hobart based Illustrator and watercolour artist. A nature enthusiast, she is inspired by plant and animal ecology and the unique diversity of the Tasmanian environment.



Monday 16 August

Discover how and why we produce different types of food, how production has changed and also ask how will it continue to change.

FESTIVAL OF BRIGHT IDEAS

Saturday 21 August

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





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at BeakerSt@TMAG.

thatsscience.org

RADIATION

TO MARS:

Q

of Physics

SIMULATION

AND REALITY

Australian Institute

Meet Associate Professor Susanna Guatelli

from the School of Physics, University of

Wollongong. In this year's AIP Women in

Physics Lecture, learn all about the health

hazards that face astronauts and what

Bookings required: Please check

science can do about them!

Tuesday 10 August, 8pm

scienceweek.net.au

That's What I Call Science

Keep an eve on the That's What I Call

Science social media channels and

webpage for the release of an online

gallery celebrating the contributions

of women and other underrepresented

Saturday 1 - Tuesday 31 August

Tasmanian Museum and Art Gallery

(TMAG), Dunn Place, Hobart 7000

PROTECTION OF

ASTRONAUTS IN

HUMAN MISSIONS

groups to science, technology, engineering,

maths and medicine in Tasmania or find us

RST DOCTORAL AWARD WEBINAR



The Royal Society of Tašmania

Dr Abersteiner is the 2020 Royal Society of Tasmania's Doctoral Award winner, His PhD focused on kimberlite, an igneous rock that originates deep within the Earth and is the primary source of diamonds. He will speak about how his work greatly improves our understanding of the Earth's deep interior.

Sunday 1 August, 5 - 6pm Bookings essential: rst.org.au Free for RST members \$6 non-members \$4,50 concession non-members rst.org.au

#SCIPUBMEMES: SCIENCE MEME POETRY



Science in the Pub Tasmania

What can meme poetry tell us about scientific research? Join Science in the Pub and local scientists in a relaxed atmosphere.

Thursday 5 August, 6 - 7:30pm Black Buffalo Hotel, 14 Federal Street North Hobart 7000

Bookings essential: bit.ly/scipubmeme

PUBLIC STARGAZING NIGHT



Astronomical Society of Tasmania

A night for the public to visit the Astronomical Society of Tasmania's facility at Mt Pleasant, to view the evening sky.

Friday 13 August, 7 - 11:30pm

Mt Pleasant Radio Observatory, Denholm's Road, Cambridge 7170

Bookings appreciated: astas.org.au/events. \$10 per vehicle astas.org.au/events

NOTICING NATURE WALK



Sustainability Learning Centre

What better way to celebrate National Science Week than to celebrate the history of mothers (and carers) walking in the bush with their children, observing and learning together. Join us, as we walk along the nature trails of Mt Nelson learning the science of observation through a Noticing Nature Walk.

Saturday 14 August, 9:30 - 11:30am Sustainability Learning Centre 50 Olinda Grove, Mt Nelson 7007

Bookings required: trybooking.com/BRZSR

RENEWABLE **ENERGY** INNOVATORS OF THE HUON VALLEY



Huonville Primary School

Meet three renewable energy innovators in this Huon Valley field trip as they share their visions and creative solutions to their local energy needs. The trip will showcase a a micro hydro plant, an off-grid business utilizing waste products, and a community energy resource.

Saturday 14 August, 10am - 3pm Huon Energy Hub, 82 Wilmot Road, Huonville 7109

\$25 per person including lunch/ students free.

Bookings essential: nel.smit@education.tas.gov.au

MARINE PREDATORS: FROM ISLANDS TO THE DEEP

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An Immersive Underground Marine Science Experience

A fully immersive, multi-sensory experience, built on the sights, sounds, and smells collected from marine predator field sites across decades of Tasmania and Antarctic research. From the field sites on remote islands to immersion underwater, diving deep into the abyss, before returning to the lab.

Friday 13 - Sunday 22 August, 4 - 9pm Hobart Underground, 14 Argyle Street Hobart 7000

Bookings essential: bit.ly/marinepred

COOL & TASTY SCIENCE AT THE LIBRARY

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Bridgewater Library

Join us for our experiments and taste tests of DIY ice cream made with super cool dry ice. We will demonstrate how to safely prepare the ice cream, explain the science behind dry ice and molecular gastronomy.

Monday 16 - Friday 20 August 3:30 -4:30pm

Bridgewater Library, 23 Green Point Rd (behind the Civic Centre) 7030

Bookings appreciated: bridgewater. library@education.tas.gov.au or 03 6165 5446

DREAM BIG: **ENGINEERING OUR WORLD**



Engineers Australia

The event will include an introductory address, followed by the movie screening an interactive Q&A discussion with a panel of local engineers, and hands-on activities. Parents and quardians are encouraged to bring their children to this family-friendly event which will also be host to a number of experiential activities for the children to participate in.

Monday 16 August, 5:30 - 7:30pm Venue and booking details: bit.ly/EnggAus

FROM ANTARCTICA TO **OUTER SPACE**



Exploring Gender Equity in Stemm at the Extremes

How do we overcome the pervasiveness of heroic white masculine leadership and exploration at the ends of the Earth and beyond? This talk will explore what the most extreme environments in the world can tell us about making STEMM workplaces more diverse and inclusive.

Stanley Burbury Lecture Theatre. University of Tasmania, Sandy Bay, 7005

Monday 16 August, 6 – 7pm Bookings essential: bit.ly/ STEMMdiversity

THE POETRY **OF SCIENCE**



Calling scientists and poets of all ages and levels of experience to express science through poetry, from three-line poems (haikus) to multiple verse rhyming poetry and anything in between. Opening July 1st, closing July 31st with a live showcase and prize giving event during Science Week.

Monday 16 August, 6 - 7:30pm Grinners Dive Bar, 132 - 134 Elizabeth St Hobart 7000

Bookings essential:facebook.com/ events/1230663047367522

THE FARNE ISLANDS -SEABIRD NESTING AND GREY SEALS OFF NE COAST OF **ENGLAND**

A presentation and a short film on the sea birds in the Farne Islands, off the coast of England.

Wednesday 18 August, 6 - 7:30pm Engineering Lecture Theatre 201. University of Tasmania, Sandy Bay 7005

Bookings appreciated: rholdern@utas.edu.au

EXBEERIMENTAL SCIENCE



Science Made Beerable

Four breweries, four brews & two thirsty scientists. ExBEERimental Science is a beer tasting event sampling the science behind brewing, Four Australian indie breweries will craft an experimental beer to be explored in depth during the live-tasting panel event.

Wednesday 18 August, 7 - 9pm Shambles Brewery, 222 Elizabeth Street Hobart, 7000

Booking essential: beerablescience.com See ad on page 6.

HUON VALLEY STEM EXPO



Huonville Primary School

The Expo will showcase renewable energy, technology, and reuse of waste materials with a Swap shop, Local council, business, community innovators and schools will share their stories and ideas.

Thursday 19 August, 10am - 2:15pm Huonville Primary School Multipurpose Room, 74 Wilmot Road, Huonville 7109

Bookings appreciated: nel.smit@ education.tas.gov.au

FERMENT-HOME-STATION 2021



Ferment-Glome-Station

After a successful 2020 edition, Fermet-Home-Station is back during National Science Week 2021. We have partnered with the Sourdough Library, TasTAFE, Australian Culinary School Belgium to explore the sourdough cultures of Tasmania. Tune in for public baking masterclass, quizes, and prizes

Thursday 19 August, 3:30 - 6:30pm TasTAFE, 75 Campbell Street Hobart 7000

Bookings essential: fermenthomestation.com

RESCUE TO RELEASE WORKSHOP



*** Raptor Refuge

At this workshop you will learn all about what's involved in a rescue, the rehabilitation process, and the eventual release of a Tasmanian raptor, You'll have an opportunity to check out the fascinating displays in our Education Centre and explore the grounds and our many aviaries where you'll get to see our resident eagles, hawks, owls and falcons up close. You'll be inspired.

Saturday 21 August, 10am - 12pm Raptors Refuge, Bloomsbury Lane Kettering 7155

\$75 adult / \$35 child

Bookings essential: raptorrefuge.com.au

info@raptorrefuge.com.au

IMAGINING LUTRIWITA'S DEEP TIME: A JOURNEY THROUGH SCIENCE. ART AND SONG



Join us on a spectacular journey through lutruwita's deep time: from our island's birth, over a billion years ago, to the mountain crushing ice age that brought the arrival of the palawa people. This event will tell lutruwita's geological story through storytelling, music and live performance art.

Saturday 21 August, 2 - 4pm \$10 per ticket

Bookings essential: tinyurl.com/2xpj5dec

facebook.com/YvanandEmily or artfarmbirchsbay.org.au

SPEAKER PROFILE

Susanna Guatelli

Susanna Guatelli was trained as a nuclear and subnuclear physicist at the University of Genova, Italy. In 2003, after completing a Master in Physics, she had the opportunity to undertake a PhD in physics, based at the European Organization for Nuclear Research (CERN, Geneva, Switzerland).

PLASTIC INSPECTION VIA TEDDY BEAR DISSECTION



Come and chop up a Teddy Bear and learn about plastics. Test your knowledge of plastic in the Great Plastics Quiz and learn about its impacts upon seabirds.

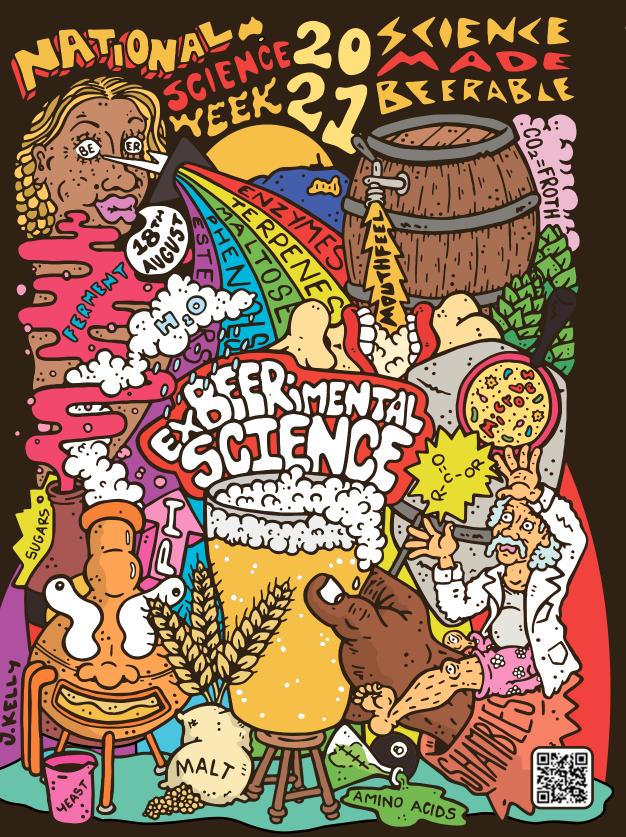
Saturday 21 August, 7 - 8:30pm Fern Tree Tavern, 680 Huon Road Fern Tree 7054

Bookings appreciated: bit.lv/ Teddydissection









WEDNESDAY 18TH AUGUST, 7-9. SHAMBLES BREWERY, HOBART.















MORE SCIENCE!

After Science Week, and all year, there are events, activities, and things you can do every day to celebrate science, technology, engineering, and maths - a.k.a. STEM! From your bin to your backyard and all the way to our sparkly island shores, there's something to discover. Get curious!



SUSTAINABILITY... IT'S NOT OVER

When Science Week is over don't forget there's always a bit more science left! Sustainability, focusing on meeting the needs of the present without compromising the ability of future generations to meet their needs, is an increasingly important area of science and our society. What better way to be sustainable than to reuse, repurpose, and then recycle this very guide! (Yep, the one you're holding in your hands right now!)

This program is compostable (please remove staples first) and can either go in your home composting or in your food organics and garden organics (FOGO) bin, if available in your council area.

If you would like to know more about the benefits and types of composting, how to build your own, tips to reduce food waste, or what will happen to your program over time, check out this resource from Good Life Permaculture and the Hobart City Council: bit.ly/composthobart

University of Tasmania Study STEM at UTAS

Are you driven to discover, meet new challenges, and create something new? Studying science can help you turn your curiosity into a rewarding career.

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

In Tasmania, you'll study in a living laboratory. You'll get hands-on experience that will really put your new skills to work.

Visit utas.edu.au/study-science



INSPIRING

CONNECTING SCIENCE AND COMMUNITY

Inspiring Tasmania features year-round science events and resources designed to connect science and community across Tasmania. And there is truly something for everyone!

Are you looking for fun, free events all year? Are you curious about what's happening around you? Do you have a bit of free time and want to participate in a real science research project? Would you like to discover science experiences like museums, parks, and wildlife sanctuaries? Do you want to add to your social calendar with science clubs for the curious of all ages?

And don't let the word 'science' put you off - we're talking flying drones, eagle spotting, night sky exploration, photography, seeing Tassie's oldest trees, sketching wildlife and plants, meeting real scientists from all types of backgrounds talking about all kinds of topics! Sometimes even from the comfort of your own home.

FIND OUT MORE AND GET INSPIRED AT INSPIRINGTAS.ORG.AU!









Principal Partners: Inspiring Tasmania is supported by the University of Tasmania, the Tasmanian Department of State Growth and the Australian Department of Industry, Innovation and Science.

Science for the Curious and Creative

21 AUGUST 2021 PRINCES WHARF NO.1 FESTIVALOFBRIGHTIDEAS.COM.AU #FOBI

Tickets online www.festivalofbrightideas.com.au \$10 per adult, or \$15 for two adults. Everyone under 18 years free of charge.

Showcasing the Brightest Innovation, Research and Technology Happening in Tasmania

It's not a trade expo, it's not a museum, it's not a classroom, it is a one-off, yearly gathering of our diverse, expert science community under the one roof at Princes Wharf 1 with activities designed to immerse and engage you in their science. Explore, create, experiment and learn from the folks harnessing the power of science in their day-to-day work. FOBI includes exhibitions, activities, workshops and (sometimes explosive!) stage performances by some of the country's most engaging science communicators.

Due to COVID-19 this is a ticketed event with strictly limited numbers - book early to ensure you can attend in your preferred timeslot(s). FOBI is a COVID-Safe event.

Host Organisations:











Media Sponsor:



Produced by:



















Southern Events 9





THAT'S TAHW I CALL SCIENCE

That's What I Call Science is a three-time national-award winning radio show and podcast that brings a fresh perspective to the discuss ion

Our team of women lead the conversation on local, national and global issues that matter to you with expert guests each week.

Listen wherever you get your podcast, on community radio or on our website thatsscience.org

Keep an eye on our social media channels for some special Science Week giveaways - just search 'That's What I Call Science' on Facebook, Instagram or Twitter.

SPICE CLUB



George Town Community Hub

Spice up your life with the Hub's Spice Club. Collect a range of unusual spices and recipe cards, tune into our Facebook page to see cooking demonstrations for the spices. and find out fun facts about where spices came from and their unusual uses throughout history.

Monday 16 August 9:30 - 5pm

George Town Library, 12 Elizabeth St George Town 7253

Bookings essential: bit.ly/spiceclub

SWEET TREAT LABORATORY



George Town Community Hub

Have you ever wondered how some of our favourite sweet treats are made? Join us at the Hub's Sweet Treat Laboratory and discover the weird and wonderful science behind home made ice cream. honeycomb, sherbet and more.

George Town Library, 12 Elizabeth St George Town 7253

Tuesday 17 August, 10am - 12pm Session for children aged 0 - 5 and their carers. Books essential: bit.lv/3zv09PE

Tuesday 17 August, 3:30 - 5pm Session for children aged 6-12. Bookings essential: bit.ly/3gtlPX7

Wednesday 18 August, 3:30 - 5pm Session for children aged 6 - 12 Bookings essential: bit.ly/3gtlPX7

NEW GROUND



The Royal Society of Tasmania

University of Tasmania PhD candidates-Priyadarshini Bindal, Eric Gubesch and Kate Edwards will be presenting their research projects, ranging from renewable energy to health research Join this talk in person or online.

Sunday 22 August, 1:30pm Meeting Room, OVMAG

Bookings essential: rst.org.au

Free for RST members/\$6 non-members/\$4 concession non-members













NEXT YEAR!

Wings Wildlife Park

The Junior Keeper experiences will give children the opportunity to become a keeper for a day and learn about the animals and all the work that goes into looking after them. The day will be jam. packed full of activities, stopping for a provided bandicoot brunch pack. At the end of the day every child will get a take home souvenir pack and have the chance to have a look around the park at their own leisure.

Saturday 14 - Sunday 15 August 10:30 - 2:30pm

Wing's Wildlife Park 137 Winduss Rd, Gunns Plains 7315

Bookings open for ages 6 - 14yrs. \$85/child

Bookings essential: Call 03 6429 1151 between 10am - 4pm

CIRCULAR HEAD SCIENCE GIG



on a journey through the latest advances

and innovations in space exploration. This

fun and family friendly event includes a 40

minute audio visual presentation and Q&A.

Sunday 15 August, 3:30 -4:30pm

Wharf Road, Ulverstone, 7315

Bookings appreciated: bit.ly/

Gnomon Pavillion - Wharf Precinct,

Circular Head Science Gig

Come along to the 2021 Circular Head Science Gig and help us discover how and why we produce all of these different types of food, how has production changed and also ask how will it continue to change. Let's explore and maybe even eat our

Monday 16 August, 4:30 - 7:30pm Circular Head Community and Recreation Centre, 72 Nelson St Smithton TAS 7330

Bookings appreciated: apower@circularhead.tas.gov.au

CAFE LAB - OCEAN OF **OPPORTUNITIES**



University of Tasmania Australia is a maritime nation. The

Australian Maritime College is a national leader in marine and maritime research and is delighted to provide the Tasmanian community with the opportunity to meet some of their pioneering researchers and emerging young PhD students at this Cafe Lab series.

Monday 16 - Friday 20 August, 5:30 - 7pm Bookings essential:

regional.partnerships@utas.edu.au More information at scienceweek.net.au

FOOD SUSTAINABILITY AND SCIENCE SHOWCASE

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NORTHWEST EVENTS 13

Ridgley Primary School

Ridgley Primary will present two sessions showing the science learning from all classes K-6 with the emphasis on Food Sustainability. Community and family members most welcome.

Tuesday 17 August, 1:30 - 3:30pm Ridalev Primary Gymnasium 904 Ridgley Highway, Ridgley 7321 Bookings appreciated by 12 August: sheryl.belbin@education.tas.gov.au humankind's journey into outer space. This fun and family friendly event will be presented by Astronomer Martin George and includes a 40 minute audio visual presentation and 0&A

Thursday 19 August, 6 - 7pm Gnomon Pavillion - Wharf Precinct, Wharf Road, Ulverstone, 7315

Bookings appreciated: bit.ly/spaceblunders

outdoor, community presentation will provide insight into the creative, cultural, and historic processes of papermaking, alongside the scientific principles of this ancient craft. e.g., fibre types and plant morphology.

Friday 20 August, 11am - 12pm Papermakers' Garden Makers' Workshop (northern side of the building / waterfront - outside)

2-4 Bass Highway, Burnie 7320 Bookings essential: eventbrite.com.au/e/the-science-ofpaper-tickets-157431731547

CREATING A





An educational event to explain the eco systems required for frogs and what our community can do to provide backyard habitats for our native fauna. The open days and workshops will show you how to create welcoming environments for our native frogs in your own backyard.

Friday 20 - Saturday 21 August

Booking essential for school-groups: Craig Broadfield, 0419 509 730

Search FrogWatch Tas and Tasmanian

FROG-FRIENDLY GARDEN







10am - 4pm

23 King Edward, Ulverstone 7315

craig@tassie.net.au

Frogs on Facebook!

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SCIVR VIRTUAL UNIVERSE

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. With Alan Duffy and Rebecca Allen and live Q&A. Pick up your free mini VR headset at the

library. Download the free app and explore the universe.

Saturday 21 August, 11am -12pm

Bookings appreciated:

www.scivr.com.au

Burnie Library, 30 Alexander Street 7320 Kingston Library, 11 Hutchins Street, 7050

For Burnie: burnie.library@education.tas.gov.au

For Kingston: kingston.library@education.tas.gov.au

LET'S TRAIN AN A.I.

Secret Lab 🚍

How does Al really work? Is Al going to take over the world and destroy us all? What's an "Al" really?

This interactive session for the young, and the young-at-heart will answer these questions, and more. Bring your family and friends, and learn how we build an Al, step by step.

On our journey we'll find out what it means to be intelligent, how an Al perceives the world, what actions it can take, and how it decides what to do. Is it intelligent? Or a simulation?

Using video game technology, we'll build an AI live on stage, together with the audience, and find out just how intelligent computers can be. (Did we mention it'll be live, on stage?)

This event will help solidify the possibilities of a career in STEM, and help to illuminate how the future of AI requires a clever combination of ethics, maths, computer science, video games, and engineering.

Hobart: Friday 13 August, 5 - 6:30pm Launceston: Saturday 14 August, 5 - 6:30pm

Bookings essential: secretlab.games/scienceweek2021

About Secret Lab

Secret Lab is an independent games and creative technology studio located in Hobart, Australia. We've been enthusiastically building video games, apps, and technology to showcase culture, history, arts, and narrative experiences since 2008.

The Team

Dr Paris Buttfield-Addison Game Developer at Secret Lab

Mars Buttfield-Addison Researcher at CSIRO/Data61 and UTAS Dr Jon Manning Game Developer at Secret Lab

Dr Tim Nugent Game Developer at lonely.coffee



FIELDWORK FILM FESTIVAL

Saturday 14 August, 7pm, Stanley Burbury Theatre, University of Tasmania, Sandy Bay

Bookings essential. For tickets, visit inspiringtas.org.au. Doors open at 6pm.

Australian Marine Sciences Association

Are you a Tasmanian based scientist or school student with an interest in science? Join our Fieldwork Film Festival to see the fascinating fieldwork that local scientists are doing in our backyard. You can enter your own video too!

Bookings essential: climatescienceinaction.com

JUMP INTO OPEN DAY

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University of Tasmania

Open Day is your chance to experience uni life, talk to staff and students, and find

This year, we're offering an exciting virtual experience. You can jump in anytime to explore our courses, scholarships, and more. Plus, you can talk directly to our friendly team.

Later in the year, you'll have the chance to join us in person and explore our labs, libraries, lecture theatres, and more. There'll also be a range of exciting activities, informative presentations and demonstrations, food, entertainment, and giveaways.

Burnie: 11 September Hobart: 21 November

To learn more, visit: utas.edu.au/openday

STATEWIDE EVENTS

Chat with scientists and peer down microscopes in the Roving Scientist Bar at the Festival Hub at TMAG

BEAKER STREET STIVAL

6-14 AUGUST 2021, LUTRUWITA/TASMANIA

WHERE SCIENCE, ART AND CURIOSITY COLLIDE

PROGRAM + TICKETS: BEAKERSTREET.COM.AU

Chat about the science of distilling with Bill McHenry and let him pour you a G&T

straight from the still.

Learn about the zinc works and the Derwent, and catch 'yan and Emily's eel-inspired erformance at Nyrstar.













Media Partner:

Beaker Street Festival is presented by:









Major Partners:















STATEWIDE EVENTS

BEAKER STREET FESTIVAL

Festival Hub @TMAG
Life on Mars?
First Dog + Kudelka on Science + Cartoons
Winterreise - Live Opera @TOMB
Science Photography Prize
Tassie Science Road Trip
Eco-Grief - Documenting Decline
Aboriginal Fire
Talks + Ideas + Music + Bars
150+ Scientists

PLUS...

FESTIVAL FINALE 14 AUGUST - EAST COAST

NOCTURNA

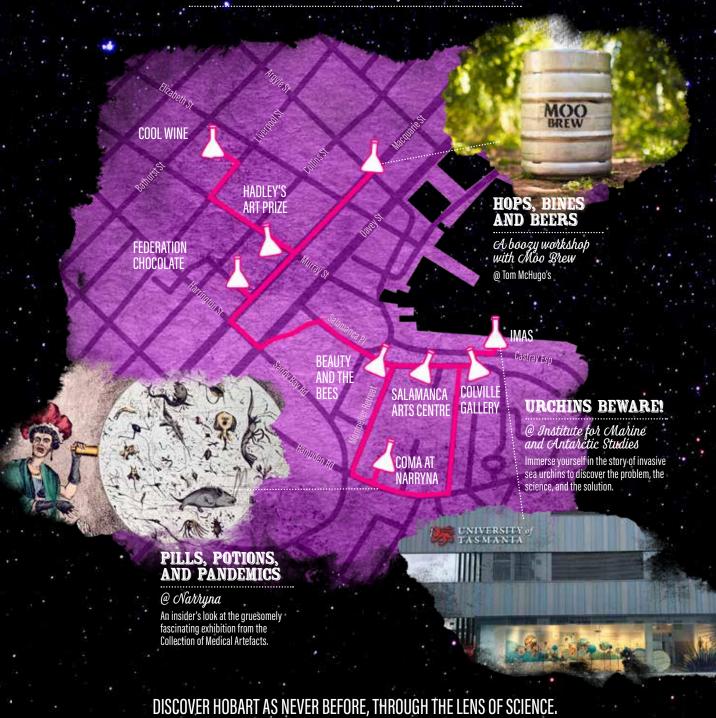
A Dark Sky Party at Spring Bay Mill
Featuring Nobel Laureate Brian Schmidt
+ (much) more

PROGRAM + TICKETS: BEAKERSTREET.COM.AU

BEAKER STREET FESTIVAL PRESENTS

SCI ART CRAWL

SATURDAY 7 AUGUST, DAYTIME



PLAN YOUR CRAWL AT BEAKERSTREET.COM.AU

OR PICK UP A MAP FROM SALAMANCA MARKET ON THE DAY.



MEET SOME **OF THE 2021** MAST

GEORGIA STEWART

'Shedding light on black holes'

Astrophysics, University of Tasmania

Georgia studies black holes, massive objects that sit at the centre of a galaxy, and is figuring out just how important they are and all the different ways they impact a galaxy.

BETH MUIR

'Behind the face of crime'

Cognitive Psychology, Australian National University

Beth is a psychological researcher looking at how people's snap judgments leads to unfair assumptions in the court system, and what we can do to prevent this.

BEATRICE HARRISON DAY

'Flower scientist, plant killer'

Plant Physiology, University of Tasmania

Bea kills plants to understand how to keep them alive. She uses cameras to make time-lapse movies of flowers and leaves as they dry out to understand how heat and drought affect plant reproduction.

KAWINWIT (INK) KITTIPALAWATTANAPOL

'Totally rat-ical scientist'

Wildlife Ecology, University of Tasmania

Kawinwit, also known as Ink, researches the impacts of black rats on the native rat species and how predators, such as Tasmanian devils, quolls, and cats, can help keep populations of black rats under control.

ANUK KRUAWAN

'Devil whisperer'

Immunology, Menzies Institute for Medical Research

Anuk is studying the cancer that plagues the Tasmanian Devil. He looks at how the cancer spreads and how to stop it.

MEET THE WHOLE TEAM (PAST AND PRESENT) AT YOUNGTASSIESCIENTISTS.COM

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

Kento Events:

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ကို	Community Expo		Festival	Q	Talk
♡	Competition		Film Screening	串	Tour
WP	Food/Drink		Online	X	Workshop
R.	Exhibition	جَجْ:	Outdoor		

SOUTHERN EVENTS

	Date	Event		Page
_	1 August	RST Doctoral Award Webinar	ΩĘ] 4
	5 August	#Scipubmemes: Science Meme Poetry	ΩÜ	8 4
	6-8 August	Diversity in STEMM Gallery	⊠≝⊊] 4
	10 August	Radiation Protection of Astronauts in Human Missions to Mars: Simulation and Reality	♀⋤	⊋ 4
	13 August	Public Stargazing Night	ؿ	4
	14 August	Noticing Nature Walk	Å †Å ¢	4
	14 August	Renewable Energy Innovators of the Huon Valley	Å ÅÅ 🗘 🗧	3 4
	15 - 25 August	Marine Predators: From Islands to the Deep - An Immersive Underground Marine Science Experience		<u>9</u> 4
	16 - 20 August	Cool & Tasty Science at the Library	<u> </u>	4
	16 August	Dream Big: Engineering Our World	三二	4
	16 August	From Antarctica to Outer Space	ΩĘ	5
	16 August	The Poetry of Science	<u>T</u>	2 5
	18 August	The Farne Islands - Seabird Nesting and Grey Seals off NE Coast of England	ζ	5
	18 August	ExBEERimental Science	ΩÏ	9 5&7
	19 August	Huon Valley STEM Expo	Å ₩Ŷ 🤉	5
	19 August	Ferment-Home-Station 2021	Q # 8	5
	21 August	Rescue to Release Workshop	^* **	S 5
	21 August	Imagining lutriwita's Deep Time: A Journey Through Science, Art and Song	پي حم	5
	21 August	Plastic Inspection via Teddy Bear Dissection	\(\sigma\)	\$ 5
	21 August	Festival of Bright Ideas 📦 🔼 😤	<i>፮ ୬ ବ</i> ୍ଲେନ ଥ	8 څړ
	21 August	SCIVR Virtual Universe, Burnie	ΩĘ] 14

NORTHERN EVENTS

14 - 22 August	QVMAG Presents		12
16 - 20 August	Spice Club	X	12
17 - 18 August	Sweet Treat Laboratory	rin X	12
22 August	Breaking New Ground	₽. P.	12

NORTHWEST EVENTS

14 - 22 August	Utas Derby: Ready Set Race!	7 1997	5 13
14 - 15 August	Junior Keeper Experience	<i>૽</i> ૽૽ ઌ૾ૺ ઌ૽૽ ૪	\(\) 13
15 August	Space Update	ζ	13
16 August	Circular Head Science Gig	ΩÏ	'? 13
16 - 20 August	Cafe Lab - Ocean of Opportunities	₹ 7 1 1 1 1 1 1 1 1 1 1	13
17 August	Food Sustainability and Science Showcase	23° 444° C) 13
19 August	Blunders and Bad Luck in Space	ζ	14
20 August	The Science of Papermaking	જ (14
21 - 22 August	Creating a Frog-Friendly Garden	のかり なる 変数 図	\(\) 14
21 August	SCiVR Virtual Universe, Burnie	ΩĘ	14

STATEWIDE EVENTS

6 - 14 August	Beaker Street Festival	₽○ % 图々\\	16
13 & 14 August	Let's Train an A.I.	Ω	15
12 & 14 August	Dr Karl's Great Moments in Science		15
11 Sept & 12 Nov	Jump Into Open Day	寻 △ 🏋 ※ 🏰 錙	15
Until 17 August	Fieldwork Film Festival	<u> </u>	15
10 - 27 August	Young Tassie Scientists	D @ A A	20

WITH THANKS TO ALL THE 2021 MEMBERS

The Tasmanian National Science Week program is coordinated by the Tasmanian National Science Week Coordinating Committee which is primarily made up of volunteers.

Dr Adele Wilson, University of Tasmania/ Young Tassie Scientists Amanda Hughes, Science Teachers Association of Tasmania Andy Baird, Tasmanian Museum & Art Gallery Dr Bianca Deans, Tourism Tasmania Dr Ben Arthur, CSIRO Brittany Trubody, TastroFest Dipon Sarkar, University of Tasmania Glenda Routley, State Growth Jason Hoare, Elizabeth College Jeannie Marie LeRoi, University of Tasmania Jenni Klaus, University of Tasmania

Jenny Dudgeon, Sustainability Learning Centre Lyndal Bond, University of Tasmania* Dr Margo Adler, BeakerStreet@TMAG Maria Dalla-Fontana, State Growth Dr Martin George, The Hive Science Centre Planetarium Meredith Castles, University of Tasmania Peter Wright, Department of Education Rob Armstrong, City of Hobart Susie Haley, University of Tasmania Trish Hodge, mina-nina Wayne Goninon, University of Tasmania



The Tasmanian National Science Week Coordinating Committee invites Tasmanian businesses, community groups, researchers, and members of the public to create events for the 2022 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 seed funding is available each year, supporting community and school events throughout Tasmania.

More information at linktr.ee/scienceweektas



Applications Open Friday 13 August 2021

*Lyndal Bond was a part of the 2020 committee but did not appear in the 2020 printed program by mistake.

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 2021 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 MONDAY 27 SEPTEMBER 2021 APPLY ONLINE STATEGROWTH.TAS.GOV.AU

Contact: jenni.klaus@utas.edu.au









