

# NATIONAL SCIENCE WEEK TASMANIA

PROGRAM OF EVENTS  
AUGUST 2018

[SCIENCEWEEK.NET.AU](http://SCIENCEWEEK.NET.AU)



MERCURY

The Advocate

THE EXAMINER

# WELCOME TO NATIONAL SCIENCE WEEK, TASMANIA

THERE'S SOMETHING HERE FOR EVERYONE



## FROM THE MINISTER

Science Week is about discovery, questioning and exploring what is, what was and what could be.

Science helps us satisfy our individual curiosity about the world around us, attempting to answer questions through a reliable process. What it can help us to understand is only limited by what questions we ask.

It is about human inventiveness and achievement in science, technology, engineering, and maths, and underpins the daily workings of our world and the most advanced and creative thinking for our future.

As a state that is proud of being a science and innovation leader, Tasmania is set for another great week of thoughts, ideas, collaboration and exploration of how science will affect our world and improve lives.

This year we welcome an exciting line-up of international and national guests with three NASA scientists who will join Dr Karl Kruszelnicki, David Cannell and Lish Fejer to our list of well-known speakers.

Science Week in Tasmania caters for everyone, with festivals taking place across all parts of the state.

Young Tassie Scientists will also bring fun and interactive demonstrations straight into classrooms around Tasmania.

I also look forward to the return of the successful BeakerStreet@TMAG, which provides an after-hours pop-up science bar, bringing science to the wider community.

Every year it takes a small army to mobilize more than 100 events around the state during National Science Week, bringing science to museums, galleries, cafes, community centres, libraries, workplaces, schools and the Tasmanian Parliament. I sincerely thank them for their wonderful efforts.

Let Science Week inspire you and take you deep into the world of solving problems and creating opportunity.

**HON MICHAEL FERGUSON MP**  
Minister for Science and Technology



## FROM THE CHAIR

This program is full of discoveries, presented by passionate people committed to finding things out. Using experience, skill, creativity, technical breakthroughs and patience, building on the wisdom of others and applying the rigour of a verifiable methodology, scientists endeavour to explain the world around us. National Science Week offers up opportunities for all of us, whether scientist or not, to delve into these same discoveries, these same investigations and make up our own minds on the benefit of these passionate pursuits. We can use these insights to help create a future of our choice.

Science does not operate outside of society, and all of us, not just its practitioners, must speak out to uphold values of truth and question vested interest. Science must not become a plaything of the powerful or those that shout loudest, trivialised by the barrage of fake news such that people doubt everything, and let prejudice dominate in the absence of knowledge and understanding. An open mind is not a dull one, and healthy scepticism should not fall into wilful ignorance for want of focus and application. Nor should it succumb to arrogance.

In the words of ecologist, Professor Dave Watson: "Science is not a special interest group. Scientists don't lobby for favours nor profit from political decisions. We are ambassadors for knowledge, the conscience of the natural world." Combined with a moral compass and an ethical consideration, there is a way forward through the crises that many perceive. It is the joy of discovering things that will benefit others.

So bring along the family and friends, or ponder in solitude. National Science Week is your opportunity to talk to folk engaged in science, question, challenge and share the passion of this playful pursuit. Science Week is food for the active mind. Enjoy.

**ANDY BAIRD**  
Chair, Tasmanian National Science Week  
Coordinating Committee  
Deputy Director, Engagement,  
Tasmanian Museum and Art Gallery

**ALL EVENTS ARE FREE  
UNLESS OTHERWISE STATED**

Grab the free app!



f [natsciwktas](https://www.facebook.com/natsciwktas)  
t [sciencetasmania](https://twitter.com/sciencetasmania)  
#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 and promote a state-wide program of events.

## FIND EVENTS NEAR YOU

SOUTHERN EVENTS .....	4-14
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### Key to Events:

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

## TASTROFEST

Thursday 2 August – Saturday 4 August

Tasmania's Astronomy Festival involves stormtroopers, workshops, virtual reality, aurora photography and special guests.



## SCIENCE OPEN SEASON

Saturday 11 August – Friday 17 August

Science Open Season returns to investigate future Launceston, life in space, native foods, crazy science, the night sky and tours of darkened galleries.



## BEAKERSTREET@TMAG

Friday 10 August – Saturday 11 August

Scientists, jellyfish, drinkable DNA, cinema, storytelling, live music and more inhabit this enchanting pop-up science bar.



## FESTIVAL OF BRIGHT IDEAS

Saturday 18 August

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



## AUSTRALIAN ANTARCTIC FESTIVAL

Thursday 2 August – Sunday 5 August

The biennial Australian Antarctic Festival is back, with an exciting program of ship tours, exhibitions and displays for all the family.







Image: Chris Wilson/Australian Antarctic Division



Image: Chris Wilson/Australian Antarctic Division

# AUSTRALIAN ANTARCTIC FESTIVAL

2 - 5 AUGUST 2018



THE BIENNIAL AUSTRALIAN ANTARCTIC FESTIVAL IS BACK, WITH AN EXCITING PROGRAM OF SHIP TOURS, EXHIBITIONS AND DISPLAYS FOR ALL THE FAMILY.

VISIT THE AURORA AUSTRALIS AND THE INVESTIGATOR, TOUR IMAS AND THE CSIRO MARINE LABS, SEE THE ANTARCTIC PHOTOGRAPHY EXHIBITION AT THE TASMANIAN MUSEUM AND ART GALLERY AND MUCH MORE.

FOR THE FULL PROGRAM, VISIT [ANTARCTICFESTIVAL.COM.AU](http://ANTARCTICFESTIVAL.COM.AU)



**AUSTRALIAN ANTARCTIC FESTIVAL**

2-5 AUGUST 2018 - HOBART TASMANIA

Supported by:



Australian Antarctic Division – Marine National Facility – CSIRO – University of Tasmania – IMAS – Australian Defence Force  
Damen Shipbuilding – Hobart Airport – P&O Maritime – Chimu Adventures – Tasmanian Polar Network – Bookend Trust – Veolia

## LASERS AND SUPER EXCITING RESEARCH

AUSTRALIAN INSTITUTE OF PHYSICS

Lasers are the greatest multi-taskers: from telecommunications to surgery, from space missions to cutting through steel, they're used everywhere! But did you know that we are also using the most powerful lasers in the world to tackle some truly global challenges? Dr Ceri Brenner comes all the way from the UK to talk about her life as a physicist using the most powerful lasers in the world to develop innovative imaging technology for medical, nuclear and aerospace inspection.

Tuesday 31 July 8pm

University of Tasmania  
Sandy Bay campus  
Physics Lecture Theatre 1  
Clark Road, Sandy Bay  
[aip.org.au/category/tas](http://aip.org.au/category/tas)

## THE AUSTRALIAN ANTARCTIC FESTIVAL PHOTOGRAPHY EXHIBITION

AUSTRALIAN ANTARCTIC FESTIVAL

This international photographic competition shows the very best photography of the Antarctic and Southern Ocean. See these remarkable images at a special exhibition at the Tasmanian Museum & Art Gallery (TMAG) across August 2018. Cast your vote in the People's Choice Award.

Thursday 2 – Sunday 19 August  
10am – 4pm

Tasmanian Museum and Art Gallery  
Dunn Place, Hobart  
[office@antarcticfestival.com.au](mailto:office@antarcticfestival.com.au)  
[antarcticfestival.com.au](http://antarcticfestival.com.au)

## SCI PUB DECISIONS

SCIENCE IN THE PUB TASMANIA

At this SciPub event, you will hear from three experts about how social, cultural and economic pressures shape the choices we make and we grapple with the question: "Are we really in control of our own decisions?" Complementary hot nibbles. BYO laughs and questions. #SciPubDecisions

Thursday 2 August 6 – 8pm

Republic Hotel  
299 Elizabeth St, North Hobart  
RSVP recommended:  
[tinyurl.com/scipubdec](http://tinyurl.com/scipubdec)  
[Emilyj77@gmail.com](mailto:Emilyj77@gmail.com)  
[scipubtas.org.au](http://scipubtas.org.au)

## INSPIRED BY NATURE

INALA NATURE TOURS

Explore the Jurassic garden at Inala, full of plants from Tasmania's Gondwanan past, and the Nature Museum overflowing with gem stones, shells & fossils. Once inspired by nature, join a creative art project utilising natural objects to create prints on paper or on silk using natural dyes. While you are waiting for your scarf to dry, you can explore the gardens or enjoy your own BYO picnic!

Sunday 5 August 10am – 4pm

Dying activity 10am and 1pm

Inala Nature Tours - Bruny Island  
320 Cloudy Bay Road, South Bruny

\$10 for eco-dying activity only

Gardens and museum access is free, BYO food and drinks

RSVP required for activities  
[inala@inalanaturetours.com.au](mailto:inala@inalanaturetours.com.au)

[inalanaturetours.com.au](http://inalanaturetours.com.au)

## ANTARCTIC INTERIORS, ARCHITECTURE AND ICE EXHIBITION

INSTITUTE FOR MARINE AND ANTARCTIC STUDIES (IMAS)

This is a research exhibition by IMAS PhD student Miranda Nieboer whose research investigates Antarctic interiority, architecture, and ice. She engages with psychological, spatial and physical processes that characterise Antarctica.

Monday 6 – Tuesday 28 August  
9am – 5pm

Mawson Exhibition Space  
Institute for Marine and Antarctic Studies  
20 Castray Esplanade, Salamanca  
For School visits please contact  
Andrew Rhodes: 03 6226 6683  
or [A.J.Rhodes@utas.edu.au](mailto:A.J.Rhodes@utas.edu.au)  
[imas.utas.edu.au](http://imas.utas.edu.au)

## ANTARCTIC INTERIORS, ARCHITECTURE AND ICE FORUM

INSTITUTE FOR MARINE AND ANTARCTIC STUDIES (IMAS)

In conjunction with the exhibition at IMAS, this public forum discusses Antarctic interiority, architecture and ice engaging with psychological, spatial and physical processes that characterise Antarctica.

Thursday 9 August 5.30 – 6.30pm

Aurora Lecture Theatre  
Institute for Marine and Antarctic Studies  
20 Castray Esplanade, Salamanca  
[Annalise.Rees@utas.edu.au](mailto:Annalise.Rees@utas.edu.au)  
[imas.utas.edu.au](http://imas.utas.edu.au)



Image: Australian Institute of Physics

## SPEAKER PROFILE

### DR CERI M BRENNER

Dr Ceri Brenner is a physicist using the most powerful lasers in the world to develop innovative imaging technology for medical, nuclear and aerospace inspection. She is also a highly experienced and popular science communicator and is a strong advocate of physics engagement to reach new audiences within the public, academia and industry.

A graduate of Oxford University with a PhD from the University of Strathclyde, Ceri has established a unique position working in the UK's Central Laser Facility. Her passion for application-focused research works alongside her pursuit of the fundamental understanding of extreme condition physics.



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.

# BEAKERSTREET @TMAG

A POP-UP SCIENCE BAR AT  
THE TASMANIAN MUSEUM  
AND ART GALLERY

10-11 AUGUST 2018  
6PM - MIDNIGHT  
FOR PROGRAM DETAILS:  
BEAKERSTREET.COM.AU

**FREE ENTRY**

Under-18s must be accompanied  
by an adult.

Presented by:



All bar proceeds go to keeping  
BeakerStreet@TMAG free and accessible.



## SCIENCE + BAR =

DAVID WALSH  
on probability

DR KARL

Radio National's  
OCCAM'S RAZOR

Science Journalists  
NATASHA MITCHELL  
& MARK HORSTMAN

L'Oréal-UNESCO for women in Science Fellow  
DR CAMILLA WHITTINGTON

Award-winning author  
DR DANIELLE CLODE

SCIENCE PHOTOGRAPHY PRIZE  
ENCHANTED SLIME MOULD FOREST

WINE SCIENCE CELLAR DOOR

100+ ROVING SCIENTISTS

BANDS, BUSKERS, DJs, DANCING

## DR KARL LIVE AT CITY HALL

DR KARL'S EXTREME MOMENTS IN SCIENCE:  
REAL OR FAKE?

Saturday 11 August, 4.30 - 6pm

\$10 - Bookings Essential  
[beakerstreet.com.au](http://beakerstreet.com.au)

\*If you miss Dr Karl at City Hall, catch him  
for a beer and a chat at 6pm on Saturday  
11 August at TMAG, where he will be a  
roving scientist

## TALKS AND WORKSHOPS

## HAVE A BEER WITH A SCIENTIST

## PHOTOGRAPHY, ART, MUSIC, AND DANCING

## TASSIE WINE AND FOOD... AND MORE!

Supported by:



This project received grant funding from the Australian Government

Images (clockwise from top): Woodford Folk Festival, L'Oréal, Richard Williams, Heath Holden, MONA/ Rémi Chauvin

SCIENCE + BAR = **BEAKER  
STREET  
@TMAG**



# FESTIVAL OF BRIGHT IDEAS

PRINCES WHARF NO.1  
18 AUGUST 2018 10AM - 5PM  
[FESTIVALOFBRIGHTIDEAS.COM.AU](http://FESTIVALOFBRIGHTIDEAS.COM.AU)  
#FOBITAS18

THE 2018 FESTIVAL OF BRIGHT IDEAS IS EXPLODING WITH SCIENCE FOR ALL YOUR SENSES. SEE, HEAR AND FEEL WHAT'S HAPPENING IN SCIENCE IN TASMANIA THROUGH INNOVATION, RESEARCH AND TECHNOLOGY. YOU'LL DISCOVER SCIENCE ALIVE IN SOME OF THE MOST UNEXPECTED PLACES!

A FREE EVENT FOR ALL AGES.



## MESSAGE FROM THE LORD MAYOR OF HOBART, ALDERMAN RON CHRISTIE

The City of Hobart is proud to once again be supporting the Festival of Bright Ideas. This year's fantastic festival program is packed with science to spark your curiosity and will reveal that science is everywhere around us. The dynamic Tasmanian science community brings their discoveries, inventions and demonstrations to this unique showcase event that has something for all interests. There are main stage shows, workshops, tours and plenty of activities to get involved in, from electronics and robots, biology and brains, oceans and ice, coding, chemistry and so much more.

The City of Hobart is delighted to support the world-leading local science sector, presenters and volunteers who bring this event to life. This festival celebrates their passion that has placed Hobart at the forefront of science globally.

Come and engage in discussion and educational interactive play. The Festival of Bright Ideas is an opportunity to discover, learn, explore, interact and have fun!

## HIGHLIGHTS

### JEREMY JUST

#### BANG, POP, WHIZZ, WHOOSH!

Science is full of fascinating and unexpected sights and sounds. Science Entertainer Jeremy Just is back at FoBI once again to see just how many things can go Bang, Pop, Whizz, or Whoosh in 50 minutes. See exciting demonstrations using the power of everything from liquid nitrogen to fire in this science spectacular.

### LISH FEJER (AKA DR THATZA NASTYSMELL)

#### GROSSOLOGY

Snot, pus, wee, saliva, ear wax, blood, vomit, burps, farts and boogas - adults think it's disgusting but all these icky, gooey, smelly, sticky things our bodies make keep us alive. Join Dr Thatza Nastysmell on a tour of the gloriously gross bits of the human body and the wonders they work.

### QUESTACON'S TASTY SCIENCE

#### PRESENTED BY DAVID CANNELL FROM QUESTACON'S EXCITED PARTICLES

Why and how do we taste? Are only our tongues used for taste? Are you a supertaster? Investigate strange tastes and the effects of colour, and mental suggestion. Find out how you can have your tastebuds altered temporarily through some clever techniques and experience the joy of chilli and wasabi.

### JOSH RICHARDS

#### FROM MARS ONE PROJECT

Yes it is true! Josh has signed up to be one of the first humans to colonise Mars. Despite the fact that it will be a one way ticket to outer space. Scheduled to depart Earth as soon as 2031, Josh is excited to share the story of space travel with the rest of us Earthlings before he says goodbye forever...

Presented by:



Supported by:

FOR THE FULL PROGRAM INCLUDING LIGHTWAVE STAGE SHOWS, WORKSHOPS AND TOURS DETAILS  
VISIT THE FESTIVAL WEBSITE [FESTIVALOFBRIGHTIDEAS.COM.AU](http://FESTIVALOFBRIGHTIDEAS.COM.AU) #FOBITAS18



# SCIENCE FOR THE CURIOUS AND CREATIVE

OVER 45 EXPERIENCES PRESENTED BY TASMANIA'S SCIENCE SUPERSTARS...

## DISCOVER

WHAT HAPPENS AFTER YOU FLUSH?

HOW TO JOIN A WEDGE-TAILED EAGLE RESEARCH TEAM AS A CITIZEN SCIENTIST

EXAMINE CELLS FROM YOUR CHEEK UNDER A MICROSCOPE

IS THERE MORE TO CATS THAN EATING AND SLEEPING?

WHY AND HOW ARE DRONES USED TO COLLECT DATA?

HOW TO CODE A ROBOT



Image: Code Club Australia

Image: Peter Mathew

## EXPLORE

HOW WE USE SCIENCE TO FIND A SOLUTION TO HOBART'S TRAFFIC CONGESTION  
WHAT DOES A GARDEN ECOSYSTEM LOOK LIKE THROUGH THE EYES OF AN INSECT?  
UNDERSTAND THE CHEMISTRY OF COLOUR AND CONTRIBUTE TO A FESTIVAL MASTERPIECE  
TASMANIA'S UNIQUE FLORA, FAUNA AND HOW IT'S ALWAYS CHANGING  
WHAT SECRETS ARE HIDDEN IN ANTARCTICA'S ICE AND SNOW?



Image: Samantha McGrath

## TOUR

THE HISTORY & GEOLOGY OF SALAMANCA WALKING TOUR  
ENGINEERING HERITAGE WALK

## THE FOBI 2018 SHOWCASE IS PRESENTED BY:

- |   |   |
|---|---|
| 24 Carrot Garden  | PushStart VR  |
| Program MONA  | RopeBot   |
| Antarctic Climate and Ecosystems Cooperative Research Centre              | Royal Australian Chemical Institute                                   |
| ARC Centre for Excellence in Australian Biodiversity and Heritage         | School of Engineering, University of Tasmania                         |
| Australian Antarctic Division   | School of Technology, Environments and Design, University of Tasmania |
| Australian UAV & University of Tasmania                                   | Science Experience  |
| Bookend Trust   | Extraordinaires: Life Sciences (SEELS)                                |
| Bricks 4 Kidz   | Science Teachers Association of Tasmania                              |
| Children's University   | Scouts Tasmania   |
| City of Hobart  | Sustainability Learning Centre  |
| Code Club Australia   | Tasmanian Institute of Agriculture                                    |
| Coder College   | Tasmanian Land Conservancy  |
| College of Sciences and Engineering, University of Tasmania               | Tasmanian Museum and Art Gallery                                      |
| Creative Exchange Institute & Plimsoll Gallery                            | TasNetworks   |
| CSIRO   | TasWater  |
| Dominic College   | Ten Lives Cat Centre  |
| DPIPWE  | Tony Hope   |
| Engineers Australia   | UTAS Robotics   |
| EPA Tasmania and Keep Australia Beautiful                                 | WhySci  |
| Hobart Hackerspace  | Wicking Dementia Research & Education Centre, University of Tasmania  |
| Hydro Tasmania  | Young Tassie Scientists   |
| Institute for Marine and Antarctic Studies                                |   |
| Make Science Fun Pty Ltd  |   |
| Marine Discovery Centre   |   |
| Menzies Institute for Medical Research, University of Tasmania            |   |
| Nature. Be in it.   |   |
| Norske Skog Boyer   |   |
| Peter Underwood Centre for Educational Attainment, University of Tasmania |   |

FOR THE FULL PROGRAM INCLUDING LIGHTWAVE STAGE SHOWS, WORKSHOPS AND TOURS DETAILS VISIT THE FESTIVAL WEBSITE [FESTIVALOFBRIGHTIDEAS.COM.AU](http://FESTIVALOFBRIGHTIDEAS.COM.AU) #FOBITAS18





Image: NASA



## SEA SHELL SCIENCE

BUSH ADVENTURES (CITY OF HOBART)

Join Bush Adventures for a special children's sea life discovery program. Engage your curiosity with the whos, whats and whys of the animals that you can find the beach, delivered at a level appropriate for young children.

Saturday 11 August 10 – 11.30am  
Long Beach South BBQ area  
Near 646A Sandy Bay Rd, Sandy Bay  
\$5.50 per person

RSVP required: 03 6238 2886 or  
[bushadventures@hobartcity.com.au](mailto:bushadventures@hobartcity.com.au)  
[hobartcity.com.au/bushadventures](http://hobartcity.com.au/bushadventures)

## HUONVILLE STEM EXPO

THE ZAYED HUON ENERGY FUTURES TEAM

This is a school and community science extravaganza focused on energy, waste reduction and digital technologies including school and family land challenges, student displays, techno games and stalls, bee bots, human energy harvesters, beeswax wraps, a toy swap, and bicycle-powered milshakes.

Monday 13 August 3.30 – 6pm

Multipurpose Room  
Huonville Primary School  
74 Wilmot Rd, Huonville  
[NSmit@greeningaustralia.org.au](mailto:NSmit@greeningaustralia.org.au)  
[zayedheft.education.tas.edu.au](http://zayedheft.education.tas.edu.au)

## HEALTH BOX STORIES

UNIVERSITY OF TASMANIA

Take the opportunity to contribute to the Tasmanian medical science and health conversation with Health Box Stories! Enter the recording booth and tell your personal health story: it can be whatever you like! Stories will be used to create a series of educational podcasts, allowing you to make an impact on your community.

Monday 13 – Friday 17 August  
9.30am – 1.30pm

Ground Floor, LINC Hobart  
91 Murray St

Ages 18+ only  
[facebook.com/healthboxstories](https://facebook.com/healthboxstories)

## INTO THE VAULTS – AN EVENING AT THE TASMANIAN HERBARIUM

TASMANIAN HERBARIUM

The mysterious, subterranean vaults of the Tasmanian Herbarium hold the world's largest collection of Tasmanian plant specimens. In this rare opportunity, the Herbarium opens its doors to the public. Join its curators to hear about famous sea voyages, a moss from the bones of a dead bushranger, amazingly adaptable weeds, and plants that are as rare as orange-bellied parrots.

Tuesday 14 August 5.30 – 6.30pm

Tasmanian Herbarium  
College Road, Sandy Bay

RSVP by 1 August  
[herbarium@tmag.tas.gov.au](mailto:herbarium@tmag.tas.gov.au)  
[tmag.tas.gov.au](http://tmag.tas.gov.au)

## THE PLIGHT OF OUR PARROTS: STATUS AND TRENDS

BIRDLIFE TASMANIA AND THE WILDERNESS SOCIETY

In this lecture, explore two of Australia's most beautiful and threatened bird species, the swift and orange-bellied parrots. Hear from researchers on the breeding success of the 2018 season and some ground-breaking conservation efforts.

Wednesday 15 August 6 – 7.30pm

Dechaineux Lecture Theatre  
UTAS Art School  
Hunter Street, Hobart, TAS, 7000  
[wilderness.org.au](http://wilderness.org.au)

## OBSERVING OUR OCEANS: HIGH TECH SOLUTIONS FOR A HOSTILE ENVIRONMENT

AUSTRALIAN METEOROLOGICAL AND OCEANOGRAPHIC SOCIETY - TASMANIAN CENTRE

Join a panel of experts to learn how they measure the ocean, the technologies used, and what those measurements are revealing. After the presentations there will be a discussion between the audience and the panel.

Tuesday 14 August 6 – 7.30pm

Stanley Burbury Theatre  
University Centre  
University of Tasmania  
Churchill Avenue, Sandy Bay  
RSVP preferred:  
[h.e.phillips@utas.edu.au](mailto:h.e.phillips@utas.edu.au)  
[events.utas.edu.au](http://events.utas.edu.au)

## SCI PUB NASA

SCIENCE IN THE PUB TASMANIA

Three Space Scientists from NASA in the United States will be visiting Tasmania during National Science Week to talk about their work on the Kepler Space Mission.

Tuesday 14 August 6 – 8pm

Republic Hotel  
299 Elizabeth St, North Hobart  
RSVP recommended:  
[Emilyj77@gmail.com](mailto:Emilyj77@gmail.com)  
[scipubtas.org.au](http://scipubtas.org.au)

## LAWRENCE LEUNG STANDS UP FOR SCIENCE!

JOKERS COMEDY CLUB

Celebrate the funny side of science with comedian, actor and science communicator Lawrence Leung and a stellar support line-up each night to guarantee hilarious science-inspired performances.

Wednesday 15 August 8pm

The Polish Corner  
cnr Augusta & Main Roads, North Hobart  
Tickets: \$23+bf presale, \$25 doorsale  
Bookings: [jokerscomedy.com.au](http://jokerscomedy.com.au) or  
[centerentertainment.com.au/events/jokers](http://centerentertainment.com.au/events/jokers)  
[info@tadaa.com.au](mailto:info@tadaa.com.au)  
[tadaa.com.au/bookings](http://tadaa.com.au/bookings)

## SCIENCE WEEK QUIZ NIGHT

TASMANIAN NATIONAL SCIENCE WEEK COORDINATING COMMITTEE

Bring your buddies to the Royal Tasmanian Yacht Club to feast on hearty meals, arm yourselves with tasty beverages and get your quiz on! No, they're not all science questions, although there will be some science-y themes.

Wednesday 15 August 6.30 – 9.30pm

Royal Yacht Club of Tasmania  
Marieville Esplanade, Sandy Bay  
Suitable for ages 15+

\$2.50 per person, collected on the night

Book a table of six or sign up to join a table at [bit.ly/scienceweekquiz2018](http://bit.ly/scienceweekquiz2018)  
[adele.wilson@utas.edu.au](mailto:adele.wilson@utas.edu.au)

*\*See page 19 to get an edge on the competition!*

## LAWRENCE LEUNG STANDS UP FOR SCIENCE!

FUNNIES AT FRANK'S

Celebrate the funny side of science with comedian, actor and science communicator Lawrence Leung and a stellar support line-up each night to guarantee hilarious science-inspired performances.

Thursday 16 August 8pm

Frank's Cider Bar and Café  
3328 Huon Highway, Franklin

Tickets: \$23+bf presale, \$25 doorsale  
Bookings: [frankscider.com.au/funnies-at-franks](http://frankscider.com.au/funnies-at-franks)  
[david@ihatemypc.com.au](mailto:david@ihatemypc.com.au)  
0410 318 325

## SCIENCE IN COURT: HOW SCIENTIFIC EVIDENCE CAN CHANGE THE OUTCOME OF A CASE

COMMUNITY LEGAL CENTRE TASMANIA

Ever wondered how scientific evidence is gathered, examined and presented in a criminal trial? Join CLC Tasmania to hear fascinating insights from lawyers, forensic scientists and the judiciary about the role that science can play in securing convictions or challenging allegations of guilt.

Thursday 16 August 5.30 – 7pm

Supreme Court  
Salamanca Place, Hobart  
RSVP for your free ticket at  
[scienceincourt18.eventbrite.com.au](http://scienceincourt18.eventbrite.com.au)  
[clctas.org.au](http://clctas.org.au)

## LISTMAP - INTRODUCTORY SESSION

BUSH ADVENTURES (CITY OF HOBART)

In this evening presentation, discover how Tasmania's land information system can help you to learn more about nature in our city or anywhere across the state.

Thursday 16 August 6 – 7pm

Elizabeth Street Conference Room  
7 Elizabeth Street, Hobart  
\$5.50 per person  
Please book online at  
[hobartcity.com.au/bushadventures](http://hobartcity.com.au/bushadventures)  
03 6238 2886  
[bushadventures@hobartcity.com.au](mailto:bushadventures@hobartcity.com.au)  
[hobartcity.com.au/bushadventures](http://hobartcity.com.au/bushadventures)

## COOL SCIENCE ENGINES

BRIDGEWATER LINC

What do vintage cars have to do with science? What's the deal with electromagnetic motors? Bring your family and find out! From 10am – 1pm, children aged 11-14 years can build a solar electric vehicle and an electromagnetic motor to take home.

Thursday 16 August 9.30am – 1pm

Bridgewater LINC  
Green Point Road, Bridgewater  
(behind Civic Centre)

RSVP required: 03 6165 5446 or  
[bridgewater.linc@education.tas.gov.au](mailto:bridgewater.linc@education.tas.gov.au)  
[linc.tas.gov.au](http://linc.tas.gov.au)

## WASTE REDUCTION AT WOODBRIDGE

WOODBIDGE SCHOOL

How can bees and worms help your town? Woodbridge students will show you by making beeswax wraps and converting a wheelie bin into a worm farm. Parents and community members are invited to attend and learn the science behind these simple activities that can have a big impact.

Thursday 16 August 12.30 – 3.15pm

Woodbridge School  
3509 Channel Highway, Woodbridge  
RSVP required:  
[bella.burgess-wilson@education.tas.gov.au](mailto:bella.burgess-wilson@education.tas.gov.au)

## STARLIGHT SCIENCE FAIR

SNUG PRIMARY SCHOOL

Did you know Tasmania is one of the best places in the world to view the night sky? Gaze through a telescope as someone walks you through what you're seeing. A virtual reality experience, information on Aboriginal constellations and night time navigation, along with Snug Primary class science projects, will be displayed. Food and drinks available. All are welcome to attend.

Friday 17 August 5.30pm

Snug Primary School  
2208 Channel Highway, Snug  
[Heather.Nichols@education.tas.gov.au](mailto:Heather.Nichols@education.tas.gov.au)







Image: Raptor and Wildlife Refuge of Tasmania

## BRUNY ISLAND MARINE DEBRIS CLEAN-UP



### NRM SOUTH

Be a part of the D'Entrecasteaux and Huon Collaboration Marine Debris Clean-up! Learn how we can all work together - community, industry, waterway users and managers - and act to improve the waterway's condition, liveability, productivity and biodiversity.

**Saturday 18 August 10am - 2.30pm**

Allonah Beach, Bruny Island

RSVP required:  
afowles@nrmsouth.org.au

## RAPTOR RESCUE TO RELEASE WORKSHOP



### RAPTOR & WILDLIFE REFUGE OF TASMANIA

Have you seen a raptor (bird of prey) up close? At this workshop, you'll get to see eagles, hawks, owls and more as you explore the Raptor Refuge and learn all about rescuing injured raptors and what it takes to help them soar again. Check out huge flight aviaries, flight tunnel and the amazing Education Centre too.

**Saturday 18 August 10am - 12.30pm**

Raptor & Wildlife Refuge of Tasmania  
Venue address provided at time of booking (Kettering)

\$60 adults, \$30 children (12 or under)

Please book online at:  
tinyurl.com/raptor18  
info@raptorrefuge.com.au  
raptorrefuge.com.au

## MT PLEASANT OBSERVATORY AND GROTE REBER MUSEUM OPEN DAY



### UNIVERSITY OF TASMANIA

World class, leading research is being done at Tassie's historical Mt Pleasant Observatory and you are invited to come and check it out! Learn about the science of radio astronomy and the history of Grote Reber, experience the Telescope and Control Room and view the 26m dish antenna at this annual event.

This will be a great day out for families with tours of the facility, 3D movies, face painting, BBQ, water rockets and many other activities.

**Sunday 19 August 10am - 4pm**

Mt Pleasant Radio Telescope & Grote Reber Museum  
Denholms Road, Cambridge  
groterebermuseum.org.au

## ROBOCUP JUNIOR - TASMANIAN FINALS



### ROBOTICS TASMANIA

School students across Tasmania have designed, built and programmed robots to compete against each other at soccer, dance performances and rescue scenarios. Come see some great robots in action!

**Saturday 25 August 10am - 4pm**

Stanley Burbury Theatre  
University of Tasmania, Sandy Bay  
roboocupjunior.org.au/tas

## INTO THE VAULTS - AN EVENING AT THE STATE'S ZOOLOGY COLLECTION



### TASMANIAN MUSEUM AND ART GALLERY

Unlock the vault and explore a space rarely seen by the public. You'll have an opportunity to be guided by TMAG scientists while investigating a collection that covers whales to weevils and thousands of animals in between. You'll also hear all about TMAG's latest research regarding Tasmanian animals.

**Monday 20 August 5.30 - 7pm**

TMAG Rosny Collection and Research Facility  
5 Winkleigh Place, Rosny

Suitable for ages 13+

RSVP by COB Thursday 16 August:  
enquiries@tmag.tas.gov.au.

tmag.tas.gov.au

## PLASTIC AND MARINE WILDLIFE: MYTHS, FACTS AND THE FUTURE



### BUSH ADVENTURES (CITY OF HOBART)

Plastic in the ocean has been all over the news of late and is a serious global issue. What is really going on and what can be done to address this issue? Join PhD student Lauren Roman as she shares her recent research findings.

**Friday 24 August 5 - 6.30pm**

Elizabeth Street Conference Room  
7 Elizabeth Street, Hobart

\$5.50 per person

03 6238 2886

bushadventures@hobartcity.com.au

hobartcity.com.au/bushadventures

## INALA WATERBUG WORKSHOP



### INALA NATURE TOURS

Discover a wacky world of waterbugs with Inala. Learn how to use keys to identify these fascinating creatures and discover what they can tell us about the health of the ecosystem - great preparation for the National Waterbug Blitz in October.

Waterways will be sampled at approximately 10am, 12pm and 2pm, however the bugs will be sorted throughout the day so come along at any time!

Before coming make sure you download the waterbug ID app! thewaterbugapp.com

BYO food, drinks and sun protection.

**Saturday 25 August 10am - 4pm**

Inala Nature Tours - Bruny Island  
320 Cloudy Bay Road, South Bruny

RSVP appreciated:  
inala@inalanaturetours.com.au

inalanaturetours.com.au

# TASTROFEST

TASTROFEST - TASMANIA'S ASTRONOMY FESTIVAL - IS BACK IN ITS FULL STARGAZY GOODNESS AT THE ULVERSTONE STADIUM.



Everyone from families through to experts are all invited to revel in our incredible universe. Ask an astronomer, play in a planetarium, be taught by a telescope, but most of all, bring along a sense of wonder as you learn something new about the amazing Tassie night sky.

Activities include night sky viewing, lectures on topics such as auroras, neutron stars, NASA programs and the famous photography classes. This year the Aurora and Astrophotography Gallery will be a feature of Stadium 2, presenting some of the most stunning images ever taken across Tasmania (with the opportunity to take them home too!).

Come along dressed as your favourite sci-fi character and get your geek on as all elements of space activities are encouraged!

**2 - 3 August: School days | 3 - 4 August: Public (evening only on 3 August)**

Adults \$10, concession \$5, 12 and under free

facebook.com/TastroFest | Twitter & Instagram: @Tastrofest | tastrofest.com

## KITCHEN SCIENCE AND AMAZING CHOCOLATE CREATIONS



### CHOCOLATE WINTERFEST, LATROBE COUNCIL

Be prepared for an exciting journey of discovery in the chocolate kitchen where tasty morsels will be created and chemical reactions are explained. You may even be "lucky" enough to try some samples. Keep an eye on the website for children's activity times on the day.

**Sunday 12 August 10.30am**

St Patrick's School Hall  
55 Bradshaw Street, Latrobe

\$5 per child (adults free and must accompany children)

enquiries@latrobe.tas.gov.au

chocolatewinterfest.com.au

## THE CLIMATE SCIENCE SHOW



### LOTION ENTERPRISES

See how greenhouse gases are changing the climate right before your very eyes. Science Communicator Anton Kole will demonstrate five amazingly simple, yet spectacular, live experiments that will take your breath away.

**Sunday 12 August 2 - 3pm**

The Point, 8 Bass Hwy, Burnie

Tickets can be purchased on the night.

Adults - \$7, student/concession \$5, family (2 adults/2 children) - \$20, children under 12 - free

lotron.enterprises@gmail.com

## CIRCULAR HEAD SCIENCE GIG 2018 - GAME CHANGERS



### CIRCULAR HEAD EDUCATION AND TRAINING CONSULTATIVE COMMITTEE

The Circular Head Science Gig is returning in 2018. This year's theme is Game Changers! Featuring challenges for local students from Kinder to Grade 10 with individual, team, and class challenges, as well as the popular family MacGyver challenge and the Science Trail. Free, family-friendly fun with interactive displays and presentations.

**Monday 13 August 5.30 - 8pm**

Circular Head Community & Recreation Centre  
72 Nelson Street, Smithton

facebook.com/chsciencebiggig

## WORKING WITH THE SPOTTED HANDFISH



### SEAHORSE WORLD

CSIRO scientist Dr Tim Lynch will give a presentation on the Spotted Handfish recovery program at Seahorse World and demystify these critically endangered fish. Don't miss this rare opportunity to hear from a local scientist.

**Tuesday 14 August 11.30am - 12.30pm**

Seahorse World, Shed 1A  
200 Flinders Street, Beauty Point

Free lecture, half-price entry to Seahorse World

RSVP required: 03 6383 4111 or  
info@seahorseworld.com.au

seahorseworld.com.au

## MOUNTAIN HEIGHTS SCIENCE EXPO



### MOUNTAIN HEIGHTS SCHOOL

Meet representatives from local industries as they exhibit information relating to the influence of science and technology on the practices relevant to their industry. See student science projects and robotics. Students with an indigenous background will learn from a member of the Tasmanian Aboriginal community about how traditional Aboriginal land management practices have changed the landscape.

**Thursday 16 August 12 - 2pm**

Mountain Heights School  
81 Conlan Street, Queenstown

03 6471 0200

andrea.stanley@education.tas.gov.au

## RIDGLEY SCIENCE EXPO



### RIDGLEY PRIMARY SCHOOL

Come and enjoy being challenged by many hands-on activities. Attempt to crack student's coding! Try using Scratch software and view the many STEM challenges presented by classes.

**Friday 17 August 1 - 3pm**

School Gymnasium  
904 Ridgley Highway, Ridgley  
education.tas.edu.au/ridgleyprimary

## THE CLIMATE SCIENCE SHOW



### LOTION ENTERPRISES

See how greenhouse gases are changing the climate right before your very eyes. Science Communicator Anton Kole will demonstrate five amazingly simple, et spectacular, live experiments that will take your breath away.

**Sunday 19 August 2 - 3pm**

RESEED Centre  
30 King Edwards Street, Penguin

Adults - \$7, student/concession \$5, family (2 adults/2 children) - \$20, children under 12 - free.

lotron.enterprises@gmail.com





City of LAUNCESTON  
QUEEN VICTORIA  
MUSEUM & ART GALLERY

## SCIENCE OPEN SEASON AT THE QUEEN VICTORIA MUSEUM AND ART GALLERY

QVMAG HAS A WEEK OF SCIENCE-RELATED FUN FOR YOU TO GET INVOLVED IN. THIS IS YOUR CHANCE TO GO INTERPLANETARY WITH JOSH RICHARDS, WHO MIGHT BE HEADING TO MARS, OR GO MAD WITH THE CRAZY SCIENTIST. MAYBE YOU WANT TO PAN FOR GOLD OR SEE SOME OF THE MUSEUM'S MOST PRECIOUS MINERALS. FIND OUT ABOUT SCIENCE'S GAME CHANGERS AND CHANGE MAKERS. HOW ABOUT GETTING TO KNOW OUR EIGHT-LEGGED FRIENDS AT THE SPIDERS EXHIBITION?

Friday 10 August – Friday 17 August | See the QVMAG program for more details, entry fees and conditions. School programs running every day. Please email [bookings@qvmag.tas.gov.au](mailto:bookings@qvmag.tas.gov.au) | [qvmag.tas.gov.au](http://qvmag.tas.gov.au)

### DR KARL'S EXTREME MOMENTS IN SCIENCE: REAL OR FAKE?

What is real? What is the real colour of the Universe? Do you really use only 10% of your brain? Do the Seven Deadly Sins still exist? Can you quickly tell if a list of numbers is faked? What generates more power on a weight and volume basis – the Mighty Sun or your Compost Pile? And finally, the Truth about Santa!

Dr Karl's Extreme Moments in Science celebrates all sides of science, from sublime moments of deep thought to the most arcane and bizarre research imaginable. The universe is a strange and wonderful place and, in his talks, Karl has scaled the highest peaks as well as turned over the pebbles to see what's underneath.

Don't forget to bring your questions for the Q&A! There will also be an opportunity to meet Dr Karl for book signings before and after the show.

Friday 10 August, 7 – 8.30pm

Albert Hall  
Crn Tamar & Cimitiere St, Launceston  
Tickets \$8

Bookings at [trybooking.com/WEUQ](http://trybooking.com/WEUQ)

### BIG DAY OF SCIENCE

Find out about the science that supports our everyday lives. Meet experts from the STEMInists, Tamar NRM, NRM North, TasWater, Fishcare, City of Launceston and the University of Tasmania, as well as our own QVMAG specialists. There will be lots of entertainment and interactives for the kids, including QVMAG's Change your game! centre, Crazy Scientist shows and the Spiders exhibition.

Saturday 11 August, 10am – 4pm

### SUNDAY SCIENCE - MEET THE EXPERTS

The QVMAG Friends are putting on a day of geology fun and discovery. The kids can pan for gold and break open rocks to find real fossils, while the adults can hear about northern Tasmania's forgotten mining history and the ancient geological forces that created Cataract Gorge. Plus, you can explore QVMAG's Game Changers and Change Makers centre, see the Crazy Scientist shows and Spiders exhibition.

Sunday 12 August, 10am – 4pm

### NIGHTS AT THE MUSEUM

Night at the Museum has been very popular with young families in the past, so make sure you join the fun! Check out the darkened galleries, investigate the night sky, and see the Crazy Scientist show, a planetarium show and the Spiders exhibition. Kids, come dressed as your favourite spider!

On Wednesday there will be a talk on Tasmanian spiders by John Douglas, an authority on the subject, and on Friday night there will be a talk on the discovery of helium by Martin George, Planetarium Manager.

Wednesday 15 and Friday 17 August  
6 – 9pm

### CHANGE YOUR GAME!

Discover change makers and their amazing contribution to science. A hands-on event run by the QVMAG Education team for the whole family (school bookings may impact access to this event).

Saturday 11 August – Friday 17 August



Image: Mel Koutchavlis

### SPEAKER PROFILE DR KARL KRUSZELNICKI

Dr. Karl is one of Australia's 100 National Living Treasures with a media career spanning more than 30 years. He has authored 40 books to date with more on the way. His accolades range from the Ig Nobel Prize from Harvard University for his ground-breaking research into belly button fluff and why it is almost always blue, to being one of the first Australian Apple Masters, of which there are only 100 worldwide.

A lifetime student, Karl has earned degrees in Physics and Maths, Biomedical Engineering, Medicine and Surgery. He now serves as the Julius Sumner Miller Fellow at Sydney University, where his 'mission' is to spread the good word about science and its benefits.

His enthusiasm for science is totally infectious and no one is better able to convey the excitement and wonder of it all than Dr. Karl Kruszelnicki.

### BRIGHT IDEAS SCIENCE PITCH

THE VAN DIEMEN PROJECT

Do you have a bright science idea? Come and pitch it to the public, remembering, as Einstein said, if you understand it well you can explain it simply! Enjoy snacks and drinks while hearing interesting ideas and support those bold enough to share!

Tuesday 14 August 5.30 – 7pm

Cowork Launceston  
Level 2, 93 York St

Please RSVP via Facebook or Eventbrite  
[info@vandiemenproject.com.au](mailto:info@vandiemenproject.com.au)  
[vandiemenproject.com.au](http://vandiemenproject.com.au)

### OBSERVING OUR OCEANS: HIGH TECH SOLUTIONS FOR A HOSTILE ENVIRONMENT

AUSTRALIAN METEOROLOGICAL AND OCEANOGRAPHIC SOCIETY - TASMANIAN CENTRE

Join a panel of experts to learn how the ocean is measured, the technologies used, and what those measurements reveal. After the presentations there will be a discussion between the audience and the panel.

Wednesday 15 August 6 – 7.30pm

Sir Raymond Ferrall Centre  
University of Tasmania, Newnham  
RSVP preferred:  
[h.e.phillips@utas.edu.au](mailto:h.e.phillips@utas.edu.au)

### LAWRENCE LEUNG STANDS UP FOR SCIENCE!

FRESH COMEDY

Celebrate the funny side of science with comedian, actor and science communicator Lawrence Leung and a stellar support line-up each night to guarantee hilarious science-inspired performances.

Friday 17 August 8pm

The Royal Oak Hotel  
14 Brisbane Street, Launceston

Tickets: \$25/\$22+bf presale (reserved/general admission), \$25 doorsale

Bookings: [trybooking.com](http://trybooking.com)  
(search 'Fresh Comedy')

[stewartcbell@gmail.com](mailto:stewartcbell@gmail.com)  
0400 098 776

### EXPLORE & LEARN - SWINGING, SWINGING

GEORGE TOWN LINC

Make a painting with a pendulum, and make your own Newton's cradle as part of a program for little scientists aged 5-10 years. Hear stories and watch hands-on demonstrations and experiments which inspire curiosity.

Monday 20 August 3.30pm

George Town Community Hub  
12 Elizabeth St, George Town

03 6702 6090

[george.town.hub@education.tas.gov.au](http://george.town.hub@education.tas.gov.au)  
[facebook.com/georgetowncommunityhub](https://facebook.com/georgetowncommunityhub)  
[linc.tas.gov.au/locations/Pages/George-Town](http://linc.tas.gov.au/locations/Pages/George-Town)

### INTERACTIVE CITIZEN SCIENCE WORKSHOPS: DECIPHERING THE WARNINGS OF OUR SENTINEL SEABIRDS

INSTITUTE FOR MARINE AND ANTARCTIC STUDIES

Globally, seabirds are among the fastest declining bird groups, with many impacted by plastics. Our local seabirds act as sentinels for the extent of plastic pollution. Join IMAS scientists for an interactive workshop on this topic and explore the ingestion of plastics in Tasmanian Silver Gulls.

Friday 17 August 9am – 5pm

S.106 Laboratory  
Geography and Environment  
Building, University of Tasmania  
School Road, Newnham  
[tinyurl.com/seabird18](http://tinyurl.com/seabird18)

### WHY DOES AN ENGINEER NEED A PHD?

ROYAL SOCIETY OF TASMANIA, NORTHERN CHAPTER

Presented by Assoc Prof Jonathan Binns - Associate Dean Research, Director of the ARC Research Training Centre for Naval Design and Manufacturing at the Australian Maritime College, University of Tasmania - this public talk tackles real problems in industry, defence and sport with research and innovation. Not just in Tasmania, but Australia and the world!

Sunday 26 August 1.15 – 2.30pm

QVMAG Inveresk  
2 Invermay Rd, Launceston

\$6 General Public. \$4 QVMAG Friends, Launceston Historical Society members and students. Free for RST members.

[rst.org.au](http://rst.org.au)







## UNIVERSITY OF TASMANIA OPEN DAY



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.

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

There will be lots of 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 5 August

North - Saturday 11 August

North West - Sunday 12 August

[utas.edu.au/openday](http://utas.edu.au/openday)

## SUSTAINABLE AGRICULTURE FOR THE FUTURE - LUNCHTIME LIVESTREAM

Join scientists from the Tasmanian Institute of Agriculture for two lunchtime livestreams and Q&A about the future of agriculture. As agricultural production intensifies around the world, sustainable agricultural and water management will become even more vital for the future of our planet.

Monday 13 August, 12 - 1pm

Wednesday 15 August, 12 - 1pm

Each session will be streamed live [livestream.com/UniversityofTasmania](http://livestream.com/UniversityofTasmania) and on the Tasmanian Institute of Agriculture's Facebook page [facebook.com/TasInAg](https://facebook.com/TasInAg) [utas.edu.au/tia](http://utas.edu.au/tia)



## CITIZEN SCIENCE NATIONAL PROJECT

GET ONLINE TO HELP THE GREAT BARRIER REEF THIS SCIENCE WEEK AND YOU COULD WIN A GOPRO CAMERA

Virtual Reef Diver celebrates the International Year of the Reef, inviting you to dive through your computer screen straight into the Great Barrier Reef where you can help scientists identify areas of decreasing coral cover and other problem spots that need attention.

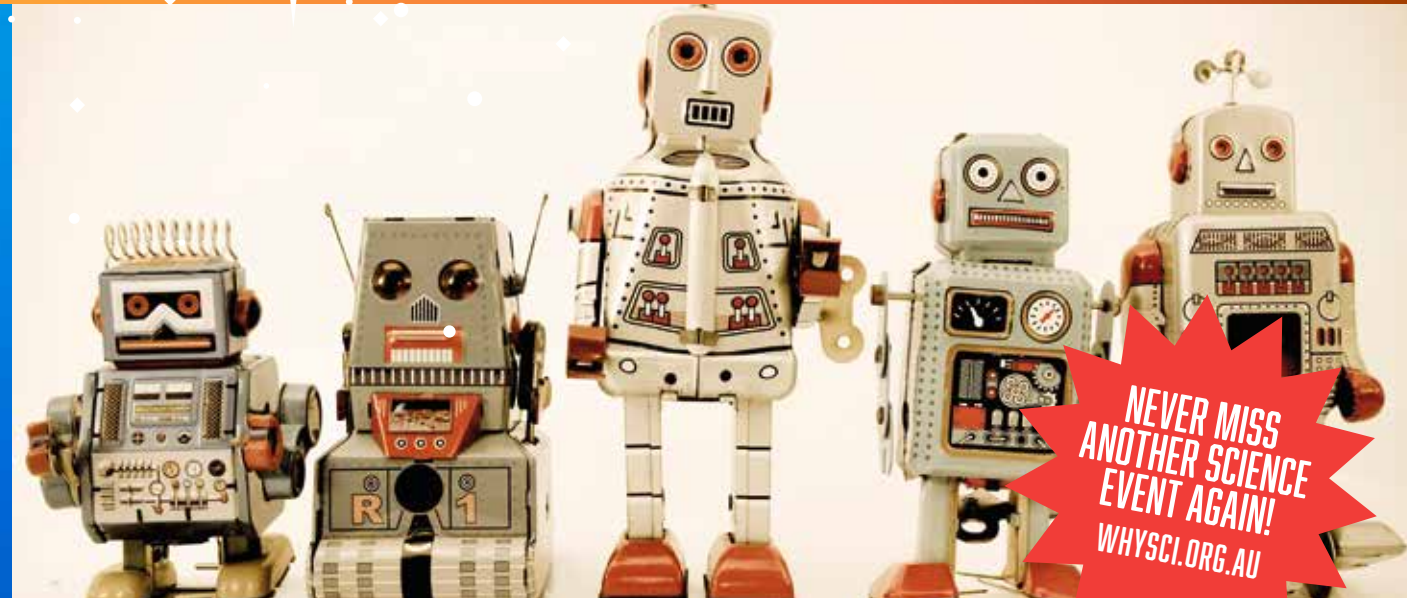
Your contributions to this project will allow scientists and reef managers to make decisions to ensure that the GBR has a future.

The project has been developed by the Queensland University of Technology, who have joined forces with a host of scientific and community organisations.

All of August

Online at [scienceweek.net.au](http://scienceweek.net.au)

CITIZEN SCIENCE IS PLAYING AN INCREASINGLY IMPORTANT ROLE IN SCIENTIFIC RESEARCH PRACTICES ALL AROUND THE WORLD. CITIZEN SCIENCE IS WHEN SCIENTISTS WORK WITH THE GENERAL PUBLIC (YOU!) TO UNDERTAKE RESEARCH PROJECTS. IT CAN BE ONLINE OR OUT IN THE FIELD. IT CAN INVOLVE COLLECTING DATA, ANALYSING DATA OR EVEN CREATING DATA! THERE ARE THOUSANDS OF CITIZEN SCIENCE PROJECTS OPERATING ALL ACROSS THE GLOBE RIGHT NOW, GIVING CITIZENS JUST LIKE YOU THE CHANCE TO CONTRIBUTE TO REAL SCIENCE.



## IF YOU NEED MORE SCIENCE AFTER NATIONAL SCIENCE WEEK, HERE'S A FEW IDEAS. ORGANISE AN OUTING AND GET CURIOUS!

Australian Antarctic Division  
Visitor Centre

Bass Strait Maritime Centre

Bonorong Wildlife Park

Devils @ Cradle

Hastings Caves

Inala Tours, Gardens and Museum

Maritime Museum of Tasmania  
Mawson's Huts

Pennicott Wilderness Journeys

Platypus House

Queen Victoria Museum and Art  
Gallery

Seahorse World

Tahune Airwalk  
Tasmanian Museum and Art  
Gallery  
Tasmanian Parks  
Tasmania Zoo  
Trowunna Wildlife Park  
Zoo Doo



## STUDY STEM

Turn your curiosity into a career by studying science, technology, engineering, or maths (STEM) at the University of Tasmania. Our state's living laboratory is your classroom, ready to be explored as you follow your passion towards an exciting future. Study science, and from here you can shape the world.

## SCIENCE WEEK QUIZ NIGHT SNEAK PEEK

For those attending the Science Week Quiz Night on Wednesday 15 August [page 12], 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 knowledge of Tassie science.

1. Which Tasmanian received a Nobel Prize in 2009 for their work on DNA which was dubbed 'the discovery of the fountain of youth'?
2. These native Tasmanian animals, unique in the world, are under threat of eradication by disease, but researchers at Menzies Institute for Medical Research are working hard to solve the problem. What is the scientific name for the Tasmanian Devil?
3. Tasmania is known as the Gateway to Antarctica, and Australia's research vessel and icebreaker – the Aurora Australis – is about to retire. What is the name of the new ship?



# YOUNG TASSIE SCIENTISTS

YOUNG TASSIE SCIENTISTS SHARE THEIR SCIENCE STORIES IN CLASSROOMS AND AT SCIENCE FESTIVALS AND EVENTS RIGHT ACROSS TASMANIA - FROM FLINDERS TO BRUNY ISLAND, FROM STRAHAN TO SMITHTON, AND EVERYWHERE IN BETWEEN!

## FIND THE YOUNG TASSIE SCIENTISTS AT YOUR NEAREST SCIENCE WEEK FESTIVAL!

- TastroFest in Ulverstone (page 15)
- Beaker Street @ TMAG in Hobart (page 6-7)
- Festival of Bright Ideas in Hobart (page 8-9)
- Huonville STEM Expo in Huonville (page 12)
- RoboCup Junior State Finals in Hobart (page 14)

### LIAM BURT

LIGHT UP YOUR DAY!

CHEMISTRY RESEARCHER  
COLLEGE OF SCIENCES AND ENGINEERING,  
UNIVERSITY OF TASMANIA

"Science is everywhere; it's a significant part of our lives. Scientific innovations can help solve problems of the future, and that is what I love most about what I do - being involved in the big picture and working with lots of scientists together in a big team."

### ALLANNA RUSSELL

SEARCHING FOR A STROKE OF GENIUS

NEUROSCIENTIST  
COLLEGE OF HEALTH AND MEDICINE,  
UNIVERSITY OF TASMANIA

"Working as a medical researcher is the best job in the world. We learn how illnesses work, then search for ways to cure them. Every day there are new discoveries to be made, and I'm always trying to push the boundaries of what we know."

### NICOLE HELLESSEY

POLAR EXPLORER AND KRILL ENTHUSIAST

ANTARCTIC MARINE SCIENTIST  
INSTITUTE FOR MARINE AND ANTARCTIC STUDIES,  
UNIVERSITY OF TASMANIA

"Being a Marine Biologist means I get to study the animals and plants that live underwater. I've been lucky enough to go to Antarctica twice already, and I'm hoping to go again soon! I loved the seals, the whales, the huge icebergs, and of course, eating ice cream for science."



MEET THE WHOLE 2018 TEAM AT [YOUNGTASSIESCIENTISTS.COM](http://YOUNGTASSIESCIENTISTS.COM)



## Key to Events:

 Children's University Community Expo Competition

Exhibition



Dinner/Food



Family



Festival



Performance



Outdoor



Online



Talk




































Tour















Workshop

## SOUTHERN TASMANIA EVENTS










Date	Event		Page
Tue 31 July	Lasers and Super Exciting Research		5
Thu 2 – Sun 5 Aug	Australian Antarctic Festival		4
Thu 2 Aug	SciPubDecisions		5
Thu 2 – Sun 19 Aug	Australian Antarctic Festival Photography Exhibition		5
Sun 5 Aug	University of Tasmania Open Day		18
Sun 5 Aug	Inspired by Nature		5
Mon 6 – Tue 28 Aug	Antarctic Interiors, Architecture and Ice Exhibition		5
Thu 9 Aug	Antarctic Interiors, Architecture and Ice Forum		5
Fri 10 – Sat 11 Aug	Beaker St @ TMAG		6-7
Sat 11 Aug	Dr Karl Live at City Hall		7
Sat 11 Aug	Sea Shell Science		12
Mon 13 Aug	Huonville STEM Expo		12
Mon 13 – Fri 17 Aug	Health Box Stories		12
Tues 14 Aug	Into the Vaults: An Evening at the Tasmanian Herbarium		12
Tues 14 Aug	Observing Our Oceans: High Tech Solutions for a Hostile Environment		12
Tue 14 Aug	SciPubNASA		12
Wed 15 Aug	The Plight of Our Parrots		12
Wed 15 Aug	Science Week Quiz Night		12
Wed 15 Aug	Lawrence Leung Stands Up for Science! Hobart		12
Thu 16 Aug	Lawrence Leung Stands Up for Science! Franklin		13
Thu 16 Aug	Science in Court: How Scientific Evidence Can Change the Outcome of a Case		13
Thu 16 Aug	LISTmap – Introductory Session		13
Thu 16 Aug	Cool Science Engines		13
Thu 16 Aug	Waste Reduction at Woodbridge		13
Fri 17 Aug	Starlight Science Fair and Night Sky Viewing		13
Sat 18 Aug	Festival of Bright Ideas		8-11
Sat 18 Aug	Bruny Island Marine Debris Clean-Up		14
Sat 18 Aug	Raptor Rescue to Release Workshop		14
Sun 19 Aug	Mt Pleasant Observatory and Grote Reber Museum Open Day		14
Mon 20 Aug	Into the Vaults: An Evening at the State's Zoology Collection		14
Fri 24 Aug	Plastic and Marine Wildlife: Myths, Facts and the Future		14
Sat 25 Aug	Inala Waterbug Workshop		14
Sat 25 Aug	Robocup Jr – Tasmanian Finals		14

**A BIG THANK YOU TO TO THE 100+ ORGANISATIONS, BUSINESSES AND INDIVIDUALS WHO HAVE CREATED SPECTACULAR, DIVERSE AND INCREDIBLY INSPIRING NATIONAL SCIENCE WEEK EVENTS THIS YEAR!**

## NORTHERN TASMANIA EVENTS

Date	Event		Page
Fri 10 – Fri 17 Aug	Science Open Season at QVMAG		16
Fri 10 Aug	Dr Karl's Extreme Moments in Science		16
Sat 11 – Fri 17 Aug	Change Your Game!		16
Sat 11 Aug	Big Day of Science		16
Sat 11 Aug	University of Tasmania Open Day		18
Sun 12 Aug	Sunday Science – Meet the Experts		16
Wed 15 & Fri 17 Aug	Nights at the Museum		16
Tue 14 Aug	Bright Ideas Science Pitch		17
Wed 15 Aug	Observing Our Oceans: High Tech Solutions for a Hostile Environment		17
Fri 17 Aug	Deciphering the Warnings of Our Sentinal Seabirds		17
Fri 17 Aug	Lawrence Leung Stands Up for Science! Launceston		17
Mon 20 Aug	Explore & Learn – Swinging, Swinging		17
Sun 26 Aug	Why Does an Engineer Need a PhD?		17

## NORTH-WESTERN AND WESTERN TASMANIA EVENTS

Date	Event		Page
Thu 2 – Sat 4 Aug	TastroFest		15
Sun 12 Aug	Kitchen Science and Amazing Chocolate Creations		15
Sun 12 Aug	The Climate Science Show - Burnie		15
Sun 12 Aug	University of Tasmania Open Day		18
Mon 13 Aug	Circular Head Science Gig – Game Changers		15
Tue 14 Aug	Working with Spotted Handfish		15
Thu 16 Aug	Mountain Heights Science Expo		15
Fri 17 Aug	Ridgley Science Expo		15
Sun 19 Aug	The Climate Science Show - Penguin		15

## STATEWIDE EVENTS

Date	Event		Page
Sun 5, Sat 11, Sun 12 Aug	University of Tasmania Open Day		18
Mon 13 & Wed 15 Aug	Sustainable Agriculture for the Future – Webinars		18
August	Citizen Science: Virtual Reef Diver		18

## YOU CAN PARTICIPATE IN NATIONAL SCIENCE WEEK IN AUGUST 2019!

**THE TASMANIAN NATIONAL SCIENCE WEEK COORDINATING COMMITTEE INVITES TASMANIAN BUSINESSES, COMMUNITY GROUPS, SCIENTISTS AND MEMBERS OF THE PUBLIC TO CREATE EVENTS FOR THE 2019 PROGRAM.**

Funding of up to \$25,000 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](mailto:Sarah.Bayne@utas.edu.au)



## WITH THANKS TO THE TASMANIAN NATIONAL SCIENCE WEEK COORDINATING COMMITTEE:

Dr Adele Wilson, University of Tasmania  
Andy Baird, Tasmanian Museum & Art Gallery (TMAG)  
Belinda Browning, CSIRO  
Dr Ben Arthur, CSIRO - Marine National Facility  
Brittany Trubody, TastroFest  
Carmen van den Berg and Meredith Wilson, Luminous Events  
Claire Campbell, Queen Victoria Museum and Art Gallery (QVMAG)  
David Maynard, Queen Victoria Museum and Art Gallery (QVMAG)  
Dr Denise Devitt, Science Teachers Association of Tasmania  
Dr Deborah Beswick, Elizabeth College  
Jeannie-Marie LeRoi, University of Tasmania  
Jenni Klaus, University of Tasmania  
Jenny Dudgeon, Sustainability Learning Centre  
Dr Lisa Cawthen  
Dr Margo Adler, BeakerStreet  
Peter Wright, Department of Education  
Rob Armstrong, City of Hobart  
Sarah Bayne, Inspiring Australia, Tasmania  
Susie Haley, University of Tasmania  
Trish Hodge, nita education  
Dr Vicki Gardiner, Engineers Australia  
Wayne Goninon, University of Tasmania

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# TASMANIAN STEM EXCELLENCE AWARDS 2018

### APPLICATIONS OPEN SOON!

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 2018 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 28 SEPTEMBER 2018 | APPLICATION FORM AND GUIDELINES [STATEGROWTH.TAS.GOV.AU](http://STATEGROWTH.TAS.GOV.AU)  
CONTACT [SARAH.BAYNE@UTAS.EDU.AU](mailto:SARAH.BAYNE@UTAS.EDU.AU)**

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](http://scienceweek.net.au) or  
download the mobile app on the Apple App or Google Play Stores.

