



**QUEENSLAND
MUSEUM**



World Science Festival Brisbane

Gladstone Regional Program

3 & 4 MARCH 2017

MEDIA KIT

STRATEGIC PARTNERS



COMMUNITY PARTNER



PRESENTED BY



ABOUT

WORLD SCIENCE FESTIVAL NEW YORK

World Science Festival takes science out of the laboratory and into the streets, parks, museums, galleries and premier performing arts venues of New York City and beyond.

The festival brings together great minds in science and the arts to produce live and digital content which presents the wonders of science and the drama of scientific discovery to a broad, general audience.

It boasts discussions, debates, theatrical works, interactive explorations, musical performances and major outdoor experiences.

The annual week-long New York festival launched in 2008 and has collectively drawn more than a million and a half visitors, with millions more viewing the program online.

World Science Festival is a production of the World Science Foundation, a 501(c)(3) non-profit organisation with its headquarters in New York City.

WORLD SCIENCE FESTIVAL BRISBANE

World Science Festival Brisbane was held for the first time in 2016, presented by Queensland Museum.

World Science Festival Brisbane brings some of the world's greatest thought leaders to Queensland, showcasing local scientists and performers from the Asia Pacific region and hosting some of the brightest and best from previous events in New York.

Queensland Museum secured World Science Festival Brisbane for six years in an exclusive licence agreement with World Science Festival in New York.

World Science Festival Brisbane is an annual celebration of science, technology, engineering, maths and the arts and is held each March in Brisbane's Cultural Precinct.

Each year, Queensland Museum will also grow the regional festival program and this year it will extend to Gladstone, Toowoomba, Townsville and Chinchilla.



2016 HIGHLIGHTS + KEY ACHIEVEMENTS

A spider named Brian, a stage production celebrating Einstein's life and infinity swings were just a few of the activities at Brisbane's inaugural World Science Festival.

Some of the world's best thinkers attended Brisbane's festival including Emmy award-winning actor Alan Alda of M*A*S*H fame, World Science Festival co-founder Professor Brian Greene, Nobel Laureate Professor Brian Schmidt and 'Her Deepness' Dr Sylvia Earle.

They discussed and debated latest discoveries and breakthroughs in topics ranging from deep space to deep oceans, the search for alien life, the link between madness and creativity, the ethics of sports science, technological innovation and our changing world.

Professor Brian Greene found a new favourite spider.

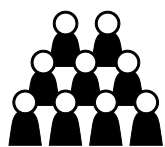
Dolomedes briangreenei is a new species of the *Dolomedes* genus (water spiders). The spider is endemic to Queensland, found around Brisbane, and uses vibrations on the surface of the water or 'waves' to navigate and find prey.

Over the five-day festival, more than 87,000 people attended *Street Science!* which included activities at Queensland Museum and throughout the Cultural Precinct.

In addition to Brisbane-based events, more than 3,000 Darling Downs and Townsville residents enjoyed World Science Festival Brisbane regional programs.

THE NUMBERS

Almost
65,000
visits to Queensland
Museum during
the festival



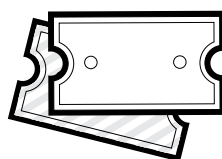
More than
120,000
people experienced
World Science
Festival Brisbane
in 2016

More than
240
VOLUNTEERS

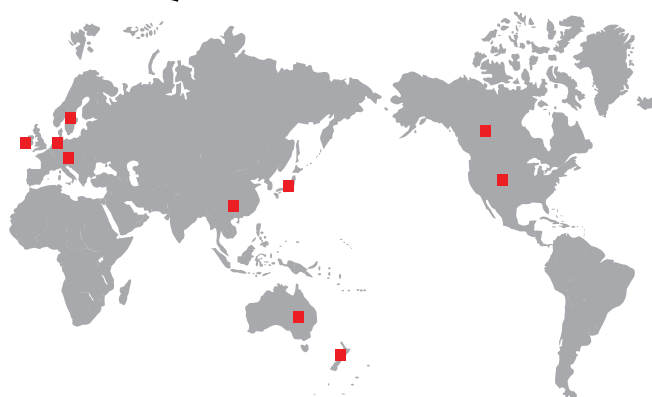
More than
900,000
webpage
views



5.5 million
digital campaign reach



More than
90
EVENTS AND ACTIVITIES



featuring **247** participants from **10** countries



TURTLES

Turtle hatching was a huge drawcard during the 2016 festival.

In an Australian first, the eggs were incubated, watched and timed so the public could witness turtles hatching during World Science Festival Brisbane.

Queensland Museum Vertebrate Curator Patrick Couper and Department of Environment and Heritage Protection's internationally renowned turtle biologist Dr Colin Limpus oversaw the project in 2016.

Crowds flocked to Queensland Museum to watch the Flatback and Loggerhead turtles hatch before their very own eyes.

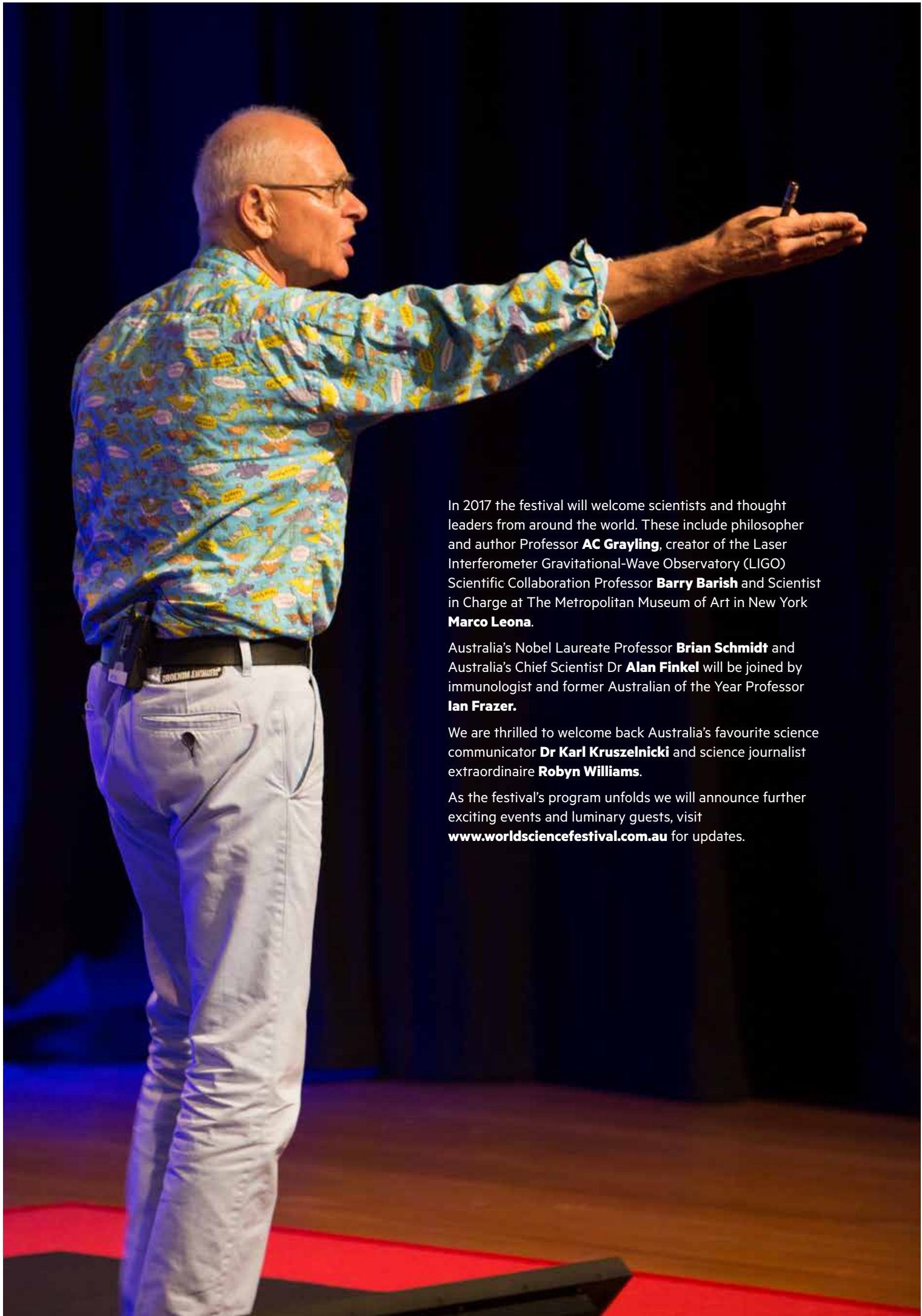
After the turtles hatched, some were taken to Yeppoon and released offshore, while the remaining hatchlings were taken to SEA LIFE on the Sunshine Coast. They will be fitted with transmitters which will enable scientists to track their movements when they are later released.

Turtle hatching is a collaboration between Department of Environment and Heritage Protection, SEA LIFE Mooloolaba and Queensland Museum. It has been made possible with support from Aqua One, SEA LIFE Trust ANZ and James Cook University. This project has received official approval by Queensland Museum Animal Ethics Committee.

2017 GUEST CURATOR PROFESSOR AIDAN BYRNE



Professor Aidan Byrne was recently appointed as Provost and Senior Vice-President at The University of Queensland, where he will provide leadership in strategic, academic and administrative management. Professor Byrne joined UQ after four years as CEO of the Australian Research Council, one of the country's peak funding bodies for scientific research and innovation. These executive positions follow 30 years in science research and academia, framed by a PhD in nuclear physics and most recently as Dean of Science and the Director of the Australian National University College of Physical and Mathematical Sciences.



In 2017 the festival will welcome scientists and thought leaders from around the world. These include philosopher and author Professor **AC Grayling**, creator of the Laser Interferometer Gravitational-Wave Observatory (LIGO) Scientific Collaboration Professor **Barry Barish** and Scientist in Charge at The Metropolitan Museum of Art in New York **Marco Leona**.

Australia's Nobel Laureate Professor **Brian Schmidt** and Australia's Chief Scientist Dr **Alan Finkel** will be joined by immunologist and former Australian of the Year Professor **Ian Frazer**.

We are thrilled to welcome back Australia's favourite science communicator **Dr Karl Kruszelnicki** and science journalist extraordinaire **Robyn Williams**.

As the festival's program unfolds we will announce further exciting events and luminary guests, visit www.worldsciencefestival.com.au for updates.

REGIONAL PROGRAM

The festival's regional program in 2017 will again provide Queensland communities the opportunity to get involved locally in the *World Science Festival Brisbane*. Programs designed to engage community members in stimulating and inspiring experiences, will be unique to each location, and will offer a selection of STEM-related activities such as discussions with leading scientists, workshops, hands-on activities or visual displays.

Community Events associated with the WSFB Regional Program 2017 will be delivered into four regional locations:

Gladstone 4 March

Toowoomba 17 March

Townsville 26 March

Chinchilla 1 April

Explore the full program at
worldsciencefestival.com.au



2017 WSFB GLADSTONE REGIONAL KEY PROGRAMS

STUDENT DAY



Student Day, Friday 3 March 2017

Location:	Gladstone Entertainment and Convention Centre, 58 Goondoon St
Time:	9am – 3pm
Attendees:	200 students from the Central Queensland Region, Years 7 – 9

In two sessions spread over the day, 100 students (per session) will arrive to experience an event specifically dedicated to school engagement. Each session will include opportunities to interact with artefacts, marvel at exhibition displays and experience some practical hands-on science demonstrations. Students will also have the opportunity to speak with industry professionals from STEM-related fields. In small groups, students will engage with scientists and industry professionals from a variety of science practices to discover the wonder, awe and inspirational career pathways available in STEM.

Sessions run from 9am – 12.30pm and 11.30am – 3pm.

Workshops:

Power of Engineering will provide four x 50 minute workshops suiting students in Years 7 – 9 throughout the day. The workshops are designed as an interactive experience to engage students during the session.

Speed Chat a Scientist

Groups will rotate throughout the day for an opportunity to learn from STEM Professionals about their industry and the work they do. The sessions are designed to engage and inspire students in following a career path in a STEM-related field.

Dr Catherine Ball (Engineering & drones business)

Dr Robert Raven (QMN Arachnologist)

Dr Aaron Palke (QMN Mineralogist & Geologist)

Dr Andrew Rozefelds (QMN Palaeontologist)

Dr Marissa McNamara (QMN Parasitologist)

Madeline Kersting Flynn (QIMR Biomedical Illustrator)

Morning session, 9am – 12.30pm:

The students will be split into two groups. Each group will participate in a workshop run by 'Power of Engineering' and swap into/out of 'Speed chat with a Scientist' – an opportunity for students to interact via small group discussion with STEM industry professionals.

All students will then move to the theatre to attend a 60 minute keynote presentation by Dr Catherine Ball then depart.

Afternoon session, 11.30am – 3pm:

All students will begin the event by attending a 60 minute keynote presentation by Dr Catherine Ball then be split into two groups.

Each group will participate in a workshop run by 'Power of Engineering' and swap into/out of 'Speed chat with a Scientist' – an opportunity for students to interact via small group discussion with STEM industry professionals. After both groups have attended all workshops, event concludes and students then depart.

COMMUNITY DAY

Community Day,
Saturday 4 March 2017

Location:

Gladstone Entertainment and
Convention Centre, 58 Goondoon St

Time:

9am – 4pm

The program will give residents of Gladstone and surrounding areas the opportunity to explore the wonders of science through workshops, hands on activities and visual displays. Leading scientists will explain how scientific discoveries will lead to greater innovation within their fields. At this free event, community members will be able to speak with these science leaders to learn how research is crossing boundaries to help us better understand the mysteries of the past and our current environment in order to help shape the future.

From 9am – 4pm in the Main Hall, members of the community will have the opportunity to experience and interact with a range of exhibitions, displays and artefacts at their own pace.

Explore the full program at worldsciencefestival.com.au and book your attendance now at gladec.com.au/event/world-science-festival/

Exhibitions and Displays

Palaeontology



Speaker:

Dr Andrew Rozefelds,
Head of Geosciences,
Queensland Museum Network

Presentation topic:

In search of ancient Queensland – new discoveries and what they tell us

Items on display:

Ancient Queensland imagery, Queensland Museum
Finding Megafauna loans kit

About:

Understanding the past, both in terms of the animals and plants, reveals information about past climates and the environmental changes that have occurred over millennia to the Australian continent. Understanding the past allows us to also predict the future and the potential impact of climate change. Andrew is Head of Geosciences in the Queensland Museum which houses the largest collection of fossils in the Southern Hemisphere. Andrew's research interests are varied but a central focus has been on the history and evolution of Australia's rainforests through the study of both living and fossil plants. He has written over 70 research papers pertaining to living and fossil plant systematics, vertebrate palaeontology and other themes.

Wild State



Speaker:

Dr Robert Raven,
Head, Terrestrial Biodiversity
& Senior Curator, Chelicerata,
Queensland Museum Network

Presentation topic:

Taxonomy of local specimens

Items on display:

Wild State imagery, local specimens,
Queensland Museum *Rainforest
Camouflage* and *Arid Adaptations*
loans kits

About:

Common spiders in the area will be explained with emphasis on the dangerous ones. Myths about spiders will be examined. Dr Raven has been spider Curator at the Queensland Museum for 30 years and is a spider bite consultant for the Poisons Information Centre. He has named over 400 species of spider including trapdoor, funnel web and tarantula spiders. His present interest is in the larger ground spiders that kill and eat toads including Racing Stripe, Huntsman and Water spiders and other themes.

Understanding Skin Cancer



Speaker:

Madeleine Kersting Flynn,
Biomedical Illustrator,
QIMR Berghofer
Medical Research Institute

Presentation topic:

The Queensland sun

About:

Living in the Sunshine State, it helps to know how to be sun-safe. Make your own UV bracelet and watch the beads change colour with exposure to the sun. You'll be able to test what blocks the UV rays the best! Madeleine has the privilege of being "behind the scenes" with some of the most brilliant minds on earth and has a love of studying and understanding how living things are put together. Madeleine works on the cutting edge of medical research and technology, with access to places that are off limits to most – from cadaver labs to 3D imaging facilities.

Not suitable for children aged 3 and under.

Minerals and Gems



Speaker:

Dr Aaron Palke,
Senior Curator Mineralogy,
Queensland Museum Network

Presentation topic:

The hidden world of minerals

Items on display:

Mineral and gem imagery and objects local to Gladstone region

About:

Minerals play an important role in our everyday lives from the metals in the phone in your pocket to the sand that made your glasses to the sapphires in your earrings. But what are minerals, how do they form, and where are they found? Join Aaron Palke on a tour of the world of mineralogy and learn about these questions and more. Aaron Palke is a Senior Curator in mineralogy at the Queensland Museum and also works as a Lecturer in mineralogy at the University of Queensland. Before coming to Australia Aaron was a researcher at the Gemological Institute of America in Carlsbad, California.

Marine



Items on display:

Great Barrier Reef imagery, Queensland Museum Coral Reef Habitat loans kit

About:

Students can guide themselves through the Queensland Museum Marine display and learn about the Great Barrier Reef and coral habitats through visually engaging displays and touch and feel reef objects.

Power of Engineering



Speaker/s: Katie Jones, Senior Process Engineer at Seqwater, engineering graduates and engineering university students from a variety of disciplines.

Presentation topic:

How you can change the world around you with engineering. In these interactive and hands on workshops, students will solve problems that engineers face and see how engineering can solve challenges for people. They will learn that engineering isn't just about maths and hard hats, but also communication, teamwork and leadership

Items on display:

Workshop kits that students built in the workshops, e.g. how to create a prosthetic leg, power a town with your own wind turbine and little bits electronic kits.

About:

We engage and inspire young people to create the future and change the world through engineering. We run free, one-day events for school students to demonstrate that they have the power to change the world through engineering. We change the perceptions of high school students in groups typically under-represented in engineering including those who are creatively-minded, female, rural, regional and indigenous.

AARNET IGLEw



Items on display:

AARNET IGLEw 3D theatre

About:

The IGLEw is a mobile inflatable immersive 3D theatre that combines gaming technologies and visualisation tools to provide students with interactive learning experiences in a visually rich setting. Students also access real-time data from science and research organisations in Australia and across the globe. This fully interactive, visually engaging experience presents complex concepts in an easy-to-understand learning context. Students experience fly-through tours brought to life by imagery from global telescope networks and immersive 3D projection and visualisation tools, accessing multiple live data sources from within the IGLEw.

Australian Science Innovations



Speaker/s: Australian Science Olympiads Ambassadors

Presentation topic: *Australian Science Olympiads*

About:

Do you have what it takes to be a Science Olympian? Test your speed, precision and hand-eye coordination in a series of tasks designed to see if you have what it takes to be Australia's next Science Olympian. Science Olympians will be on hand to take you through your paces, give hints and tips and share their experience with you. You will hear firsthand what it's like to travel the world and compete as a science student - and learn what it takes to win a medal.



Presentations

Throughout the day, various workshops and presentations will be held that participants will need to register themselves to attend. Registration is free, but capacity is limited in certain presentations.

Time	Presentation	Location
9.15am – 10am	<p><i>Parasites: Life in Inner Space</i></p> <p>Dr Marissa McNamara, Parasitologist Research Officer, Queensland Museum</p> <p>Be prepared to embark on a voyage to discover aliens... not in the vacuum between planets and stars, but in the many habitats inside (and outside) organisms! Parasites are found everywhere, and their incredible adaptations allow them to live in places you would never think about – or don't want to. In this talk Marissa McNamara will discuss different aspects of parasitism, the biodiversity of parasites, and some of the many ways parasites can affect our lives.</p>	Theatre
10am – 11am	<p><i>Atomic Kids!</i></p> <p>Steve Gramenz, Learning Officer, Queensland Museum</p> <p>This inter-reactive workshop will have children getting hands-on with elements, constructing 3D molecule models and performing chemical reactions that will blow their mind!</p>	Conference Rooms 1, 2 & 3
10.45am – 11.45am	<p><i>Drones for good (and for fun!)</i></p> <p>Dr Catherine Ball, Managing Director, Elemental Strategy</p> <p>Drones can save lives, protect the environment, and help empower communities. This presentation will show what some drones can look like, and how we can use them.</p>	Theatre
12pm – 1pm	<p><i>Atomic Kids!</i></p> <p>Steve Gramenz, Learning Officer, Queensland Museum</p> <p>This inter-reactive workshop will have children getting hands-on with elements, constructing 3D molecule models and performing chemical reactions that will blow their mind!</p>	Conference Rooms 1, 2 & 3
12.30pm – 1.15pm	<p><i>Street Science Show</i></p> <p>Steve Liddell, Street Science</p> <p>Science Steve from Street Science brings his seriously fun and educational science show - perfect for entertaining both kids and adults alike with fiery and explosive demonstrations.</p>	Theatre
2pm – 2.45pm	<p><i>Spiders of the greater Gladstone area: the good, the bad and the ugly</i></p> <p>Dr Robert Raven, Arachnologist, Queensland Museum</p> <p>Common spiders in the area will be explained with emphasis on the dangerous ones. Myths about spiders will be examined.</p>	Theatre
2.30pm – 3.30pm	<p><i>Atomic Kids!</i></p> <p>Steve Gramenz, Learning Officer, Queensland Museum</p> <p>This inter-reactive workshop will have children getting hands-on with elements, constructing 3D molecule models and performing chemical reactions that will blow their mind!</p>	Conference Rooms 1, 2 & 3

The Gladstone City Library will also be providing additional science programming including coding and robotics workshops. Families and children can enjoy a variety of activities and local science clubs in the Library from 9am – 4pm.



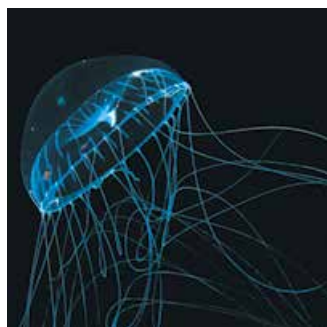
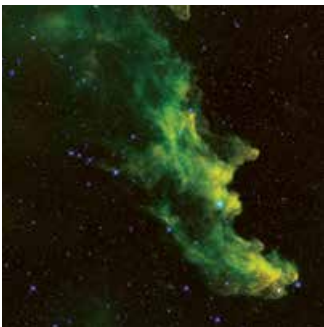
IMAGES FOR MEDIA USE

World Science Festival Brisbane will be held from 22–26 March 2017 and will bring together great minds in science and the arts during the five-day event.

The Gladstone Regional Program will be held 3 & 4 March with a FREE community event held on 4 March.

Below is a selection of images and captions for media use. Additional images are available on request.

Supplied photo credits must accompany publication – image courtesy of Queensland Museum.



QUEENSLAND MUSEUM NETWORK

Queensland Museum Network (the Network) is the keeping place for the State Collection of more than 1.2 million objects and specimens, valued at more than \$487 million, and more than 14 million research collection items.

The Network has grown since the Queensland Museum was founded by the Queensland Philosophical Society in January 1862, coming under the responsibility of the State Government in 1871 and moving into its first purpose-built premises in 1879.

Today, the Network is governed by the Board of the Queensland Museum (the Board) and includes:

- Queensland Museum (including the Sciencentre) in the heart of Brisbane's Cultural Precinct at South Bank
- Cobb+Co Museum in Toowoomba
- Museum of Tropical Queensland in Townsville
- The Workshops Rail Museum in Ipswich
- Queensland Museum Collections, Research and Loans Centre in Hendra
- Museum of Lands, Mapping and Surveying in Woolloongabba, Brisbane
- Earth Sciences Museum, The University of Queensland

Over the years, the Network has changed alongside Queensland as it discovers, documents and celebrates the state's natural, cultural and regional diversity.

Through its dynamic network of public attractions, trusted scientific and cultural research, significant collections, and regional and community services, the Network continues to enrich the cultural, social and intellectual life of Queenslanders and visitors to the state.

The Network reaches far beyond the walls of its six public museums, fostering connections with diverse audiences of millions of people each year. It does this through museum visits, events, workshops, talks and lectures, school education kits, online interaction and publications, and continues to be at the forefront in providing successful professional and community support for the collections and museums sector.

The Network is celebrated as a valued cultural and scientific leader, growing with the community to foster a better understanding of our place in the world.

Its scientific and academic researchers are internationally recognised for their expertise in the disciplines of natural and cultural heritage and geosciences.

MEDIA INTERVIEWS AND CONTACTS

A selection of World Science Festival Brisbane images are available for media use and additional images can be sourced on request.

Supplied photo credits must accompany publication.

Image courtesy of Queensland Museum.

Click here to access the suite of images:

<https://www.dropbox.com/sh/i7gz1prufh8pu0h/AAATDvze-M1ZJXblj2zNnrQza?dl=0>

Queensland Museum

Entry is free

Queensland Museum

Cnr Grey and Melbourne Streets

South Brisbane

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CONNECT WITH WORLD SCIENCE FESTIVAL BRISBANE

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South Brisbane

Queensland

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