

## Questacon Science on the Move

Enjoy, discover and explore principles of light, music and sound, human biology and health, force and motion, ecology and the environment, and electricity and magnetism. Science on the Move's intriguing exhibit investigations will engage your mind and body.

See the exhibition around Tasmania

During August, September and October

Find out which dates the exhibition will be at your local library at [inspiringtas.org.au](http://inspiringtas.org.au)

Launceston | George Town | Scottsdale | Devonport  
Ulverstone | Burnie | Smithton | Queenstown | Sorell | Rosny  
Huonville | Kingston | Glenorchy | Bridgewater | New Norfolk

Presented by



UNIVERSITY of TASMANIA | Hydro Tasmania

Hosted by



# FESTIVAL OF BRIGHT IDEAS

PROUDLY SUPPORTED BY UNIVERSITY of TASMANIA

## Festival highlights



### Questacon Science on the Move

Immerse yourself in 33 hands-on science experiences and investigations. You can turn yourself into a battery, crank up a tornado in a bottle, try at escaping from handcuffs, catch sounds, and see the world through coloured filters.



### Tasmanian Model Solar Challenge

Get amongst the action of model solar-powered cars and boats from the School Solar Challenge, and see them in action on the track or in the pool. Explore the principles of solar technology, environmental sustainability, electronics and mechanical engineering involved in designing and building a model solar powered vehicle. *Saturday only.*

## FOBI guidelines



15-minute warning bell will sound before the end of each session, and then another at the end of the session.



Leave promptly at the end of your 2.5 hour session to allow for the next session to start on time.



We encourage all guests to wear a face mask.



Make use of provided hand sanitiser.



Please do not attend if you are experiencing:

- Fever
- Chills/night sweats
- Runny nose
- Cough
- Sore/itchy throat
- Shortness of breath
- Loss of taste/smell.

## Special thanks to our festival sponsors

Major partner



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## Session times

Green Wristband  
9–11.30am

Purple Wristband  
11.30am–2pm

Yellow Wristband  
2–4.30pm

## Science activities

- 1 **Tasmanian Model Solar Challenge**  
Get amongst the action of model solar-powered cars and boats from the School Solar Challenge. *Saturday only.*
- 2 **Questacon Science on the Move exhibition**  
Explore 33 hands-on science experiences. You can turn yourself into a battery, crank up a tornado in a bottle, try at escaping from handcuffs, and much more.
- 3 **Hobart Hackerspace**  
Immerse yourself in the world of robots and artificial intelligence. Explore a range of exciting projects including the amazing smoke ring cannon!
- 4 **TasNetworks**  
Participate in "Watts on Wheels" to discover how renewable energy can power communities and contribute to Tasmania's energy landscape.
- 5 **Hydro Tasmania**  
Innovative solutions help combat the challenges we face in hydropower generation. See our pumped hydro model and our robotic submersibles, which examine our underwater assets to detect and fix issues.
- 6 **Devil Robotics**  
Interact with remote-controlled robots, including FIRST Tech Challenge and LEGO SPIKE Prime robots.
- 7 **Centre of Excellence for Plant Success**  
Did you know that plants have some similarities to humans? Explore the inside of plants at a microscopic level to understand how water stress and drought affect plants, and eventually us!
- 8 **Tasmanian Institute of Agriculture**  
Make your own seed bomb and help restore biodiversity in your backyard.
- 9 **Tasmanian Museum and Art Gallery**  
Understanding how living things have adapted to their environment and can help humans find solutions to the challenges we face. Explore the adaptations of local animal species, from snake fangs to seal flippers.
- 10 **Engineering, University of Tasmania**  
Put your skills to the test with our engineering design challenges and find out about the role engineers play in society and in developing new technologies.
- 11 **Mathematics, University of Tasmania**  
Explore the mysterious properties of fluids. Create objects that can soar through the air, learn how to make drinks foam over in one motion, and investigate the effects of rotation and viscosity.
- 12 **Royal Chemical Institute (Tasmanian Branch) and Chemistry, University of Tasmania**  
Under infrared light, different chemicals give unique fingerprints. Which white powders match which common drug? Use the model kit to build their molecular structure.
- 13 **Geography, Planning and Spatial Sciences, University of Tasmania**  
See our mini-drones in action and delve into our augmented reality sandpit to see how information about our environment can help us tackle complex challenges.
- 14 **Forest Practices Authority**  
Look up! Look down! Explore what values can be found throughout forests. Hint: there is so much more than trees!
- 15 **Sustainability Learning Centre, and Natural Resources and Environment**  
Upcycle t-shirts into toys for pets, rugs or shopping bags. Visit our repair café and learn how to extend the life of your clothing and reduce the impact on the environment.
- 16 **NITA Education**  
For more than 50,000 years, the palawa people managed and cared for our unique island. Connect with our rich culture, heritage, knowledge and traditions.
- 17 **Tasmanian School of Medicine, University of Tasmania**  
Find out how and why bones are plastered. Explore different imaging techniques, conduct an ultrasound and reveal a hidden world inside your body.
- 18 **Tasmanian School of Medicine, University of Tasmania**  
Discover how the heart works, how blood pressure is measured and why it is important. Listen to your heart sounds and learn how to keep it healthy.
- 19 **Menzies Institute for Medical Research, University of Tasmania**  
What's in the air, and why should you care? Look down the microscope and discover the relationship between pollen and particles in the air and your health. *Friday only.*
- 20 **Platinum Spinal Centre Australia**  
How are the nerves in your spine functioning? Explore the latest developments in human body scanning technology with an interactive NASA-designed spinal scan.
- 21 **Wicking Dementia Research and Education Centre**  
Ever seen a giant brain?! Chat with a brain expert to find out interesting brain facts and learn how to keep your brain healthy.
- 22 **Australian Science Innovations**  
Challenge yourself to solve Australian Science Olympiad questions. Find out what it's like to compete and represent Australia, and learn how you can get involved in the program.
- 23 **Young Tassie Scientists**  
Find out what scientists really do! Meet local researchers and test out our hands-on activities for all ages.
- 24 **Inspiring Australia Tasmania**  
Science can make the world a better place! Find out how Inspiring Australia Tasmania connect science and community – and meet Rosie, the life-size dinosaur.

- 25 **Earth Sciences, University of Tasmania**  
Learn about rocks and minerals and what geologists do.
- 26 **Science Teachers Association of Tasmania**  
Science made simple! Join us for easy, engaging experiments you will love.
- 27 **TasWater**  
Learn how we can convert waste into energy and reuse what might otherwise go to waste. Make your own terrarium and see the water cycle in action.
- 28 **Fisheries Tasmania, Department of Natural Resources and Environment**  
Explore the science behind fishing. Learn how to create artificial fish habitats, and how to catch and handle fish responsibly.
- 29 **Woodbridge Marine Discovery Centre**  
View live marine animals, pat invertebrates in the touch tank, identify some dangerous marine animals and items commonly found on Tasmanian beaches, and learn how you can help look after our beaches.
- 30 **CSIRO Marine National Facility**  
Ride the waves in an Antarctic storm, and dive into the abyss to uncover the mysteries of the deep. Join us aboard Australia's advanced blue-water research vessel, Investigator, without getting your feet wet!

## Food and Drink

- F1 Davey Street Garage
- F2 Donut 7
- F3 The Tow Bar
- F4 Taco Taco
- F5 Canopy Ice Cream

## First Aid

First aid support is available at the far end of the venue. Proudly provided by Promed.



## Site Map

