

Sydney Science Trail



15 August —
15 September
2020



Program Schedule

#SydneyScienceTrail
#NationalScienceWeek

sydneysciencetrail.net.au

PLANTS

Royal Botanic Garden Sydney

The Living Laboratory

Go for a virtual stroll through the Royal Botanic Garden Sydney to discover its beautiful treasures – and its deadly threats.

Virtual Walk 360

I Spy a Wollemi

There are living dinosaurs amongst us! Help our scientists to find Wollemi Pines that have been planted all around the world. How many can you spy?

Citizen Science Project

Bush Food Experience

Explore the world of bush tucker in the saltwater country around Sydney, and learn how it defines Aboriginal life.

Video

Nature Explorer

Explore the beauty of urban nature in our beautiful parklands and garden – meet the people who make the green heart of the city beat! Read about the passionate people who are keeping our urban green spaces alive, as horticulturalists, arborists, rangers, and educators share their knowledge. See your neighbourhood park through their eyes.

Blog

Department of Primary Industries

Biosecurity & Food Safety

Biosecurity Warrior

Plants can get sick, just like people. Healthy plants are important for the Environment and Agriculture. Good biosecurity protects our plants from unwanted pests and diseases. Become a Biosecurity Warrior and learn how you can help keep our plants healthy

Game

Eaton Gorge Theatre Production

Get Growing – A Story of Adaptation

Follow four little seedlings in a puppet play adventure through the Royal Botanic Garden Sydney, and learn how they have cleverly adapted to different environments.

Video

Bush Blitz

Bush Blitz

Join the Bush Blitz team on a scavenger hunt across Australia to discover our native species. You might even find a new one.

Citizen Science Project

UNSW Sydney

Centre for Ecosystem Science, School of Biological, Earth & Environmental Sciences

Environment Recovery Project

Take a look at the gradual reappearance of all the different plant and animal species emerging after this year's mega-bushfires.

Citizen Science Project

Sydney Institute of Marine Science

Operation Crayweed

Help the 'Operation Crayweed' team restore Sydney's missing underwater forests through a choose-your-own-adventure game!

Game & Video

Inner West Library

Tree Walk

Listen in on expert tree-readers, Katrina Ross and Darren Charwood, as they share how to identify tree species that live in your backyard.

Podcast



ANIMALS

Australian Museum

FrogID

There's a way you can help identify where our native frogs are thriving and where they aren't, and track the distribution of the cane toad in Australia – and it starts on your smartphone.

Citizen Science Project

Marine Invertebrate Collection

Learn about boneless sea-dwelling creatures, many you've probably never seen before, which contribute to over 90% of the animals living on earth.

Blog

Why Museum Collections? The Malacology Collection

Find out why having a collection of molluscs like snails, slugs and squid is just as important as having a local library.

Blog

Royal Botanic Garden Sydney

Let's BEE Scientists

Go on a musical adventure into the fascinating world of Australian native bees, and learn how to make a bee hotel and spot pollinators in your garden.

Game

Taronga Zoo Sydney

360 Koala Precinct

Get up close and personal with Australia's most unique (and sleepest) marsupial, the Koala, at Taronga Zoo Sydney.

Virtual Walk 360

Frog and Tadpole Study Group of NSW

Leap into the world of frogs! Play the 'Frog or Toad' game to learn how to tell the difference between Cane Toads and Australian native frogs.

How to make a Climbing Frog

Activity

Meet the Frog and Tadpole Society Group

Video

Frog or Toad

Game



Creative Science

Extreme Adaptations with Creative Science

Plants and animals take adaptation to a whole new level! Grab a front row seat to a science show that shares how they've been doing it for thousands of years.

Science Show

Macquarie University

Virtual Tour - Living Seawalls

Go on a field tour along the shoreline of Sydney Harbour to see how a team of scientists and designers are creating 'seawalls' that are alive with native marine life.

Video

A Day in the Life of Professor Ken Cheng

Put your lab coats on and follow the exciting day in the life of Professor Ken Cheng, a biological sciences professor who studies the quirky behaviours in monkeys, bees, ants and even humans.

Blog

EARTH

Australian Museum

What Does Climate Change Mean to You?

Learn about all the ways the world's ecosystems are being impacted by climate change and what that means for the people living in those environments.

Video Series

Treasures of the Earth: Mineralogy Collection

Embark on a special tour through the Australian Museum's collection of glittering crystals and colourful minerals.

Blog

Department of Planning, Industry and Environment

Saving our Species

Save the World with your Family

Want to help our planet? Learn the simple steps you and your family can take to help Australia's plants and animals survive.

Blog

Joint Academic Microbiology Seminars

Welcome to the Microverse

Listen to five fascinating stories about the hidden universe of microorganisms and learn about the massive role microscopic lifeforms play everyday.

Visual Audiobook

UTS

A Day in the Life of Dr Katherina Petrou

Ever wanted to venture to Antarctica? Take a virtual trip with UTS Scientist Dr Katerina Petrou, as she conducts research into marine phytoplankton and bacteria, and their effect on ocean productivity.

Blog

PANELS

The Big Questions of Science

Science is great at giving us answers, but even better at giving us questions! Join in to tackle some of science's biggest questions in 2020.

18 August 2020 | Video

Australian Fires - Impacts and Opportunities

Did you know that ecosystems and wildfires are friends and foes? Discover why and explore one of the hottest topics in Australia right now.

19 August 2020 | Video

Climate Science in 2020

The impact of climate change is too big to ignore. Learn how climate change started and the startling ways it will impact our future.

20 August 2020 | Video

Women in STEM

Listen to the panel of incredible women scientists and discover their journey into STEM.

21 August 2020 | Video

Why Science and Art Can't Live Without Each Other

Science and art are connected in more ways than you might think. Hear from scientists and artists who rely on both to produce amazing work.

22 August 2020 | Video

Fizzics Education

The Deep Blue

Dive into the science of the sea and explore the weird and wonderful ways life underwater works.

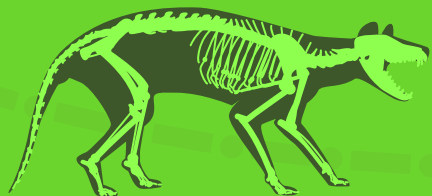
Science Show

ANSTO

Meet the Scientist - Dr Tom Cresswell

Discover the ingenious ways nuclear science is being used to understand the effects of pollution in our waterways with radioecologist, Dr Tom Cresswell.

Video



SPACE

Sydney Observatory

Mars 2020

In 2020, NASA launched the Mars 2020 Mission and sends the newest rover, Perseverance, on her journey to explore Mars. Hear from Australian Astrobiologist Bonnie Teece, as she talks about Australia's leading role and the search for life in the ancient lake Jezero Crater.

Video

What's in the Sky?

Whether you live in the city, or have access to the pristine dark skies of regional Australia, there's a lot you can see at night. Learn what stars and constellations are visible in the Southern Sky and where to find the planets all from your own backyard.

Blogs

Winning Sky Photos: The David Malin Award

The David Malin Awards celebrates some of Australia's most talented photographers. But these photographers capture images worlds away, literally. Check out some of the winning astrophotography images from the 2019 David Malin Awards.

Video

Australian Space Icons

Did you know that Australians are leading the search for extraterrestrial life on Mars? This is your chance to learn about the leading Australian scientists who are exploring the universe in search for Martian life.

Blog

Live from the Sydney Observatory

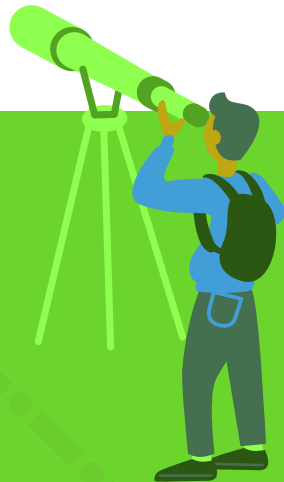
Join Karlie Noon to see the planets, stars and highlights of the Southern Sky like never before as you travel light-years into the deep sky live from the Sydney Observatory.

Livestream

A Day in the Life of ISS Flight Controller Andrea Boyd

Meet the Australian Flight Controller, Andrea Boyd, who takes you through her day working with astronauts to conduct science experiments aboard the International Space Station.

Blog



TECHNOLOGY

Australian Museum

Behind the Scenes: Collection Care & Conservation

Conservation is an important part of any museum. Find out how the Australian Museum's conservators take on the mammoth task of conserving the museum's important scientific, natural history and cultural collections.

Video

Behind the Scenes: Australian Centre for Wildlife Genomics

Step into the wildlife forensics laboratories at the Australian Centre for Wildlife Genomics to discover how DNA is being used to conserve Australia's unique wildlife and fight wildlife crime

Video

Macquarie University

A Day in the Life of Dr Andrew Care

Take a closer look at nanomedicine as Dr Andrew Care demonstrates how the smallest tools are used to fix the biggest diseases!

Blog

A Day in the Life of Dr Devika Kamath

Join Dr Devika Kamath, an astrophysicist and lecturer, as she explores our universe with the incredible telescopes available in Australia.

Video

Virtual Lab Tour - School of Engineering

Take a virtual tour of Macquarie University's engineering labs to get a 360° view of the hi-tech equipment they use to conduct groundbreaking research

360 Video

ANSTO

Meet the Scientist - Dr Helen Maynard-Casely

Ever wondered what lies on the surface of other planets? Follow instrument scientist, Dr Helen Maynard-Casely, as she scratches the surface of faraway planets.

Video

UTS

A Day in the Life of Dr Annette Dowd

Follow a day in the life of UTS physicist Dr Annette Dowd, including a visit to the Specialised Optics Lab.

Video

A Day in the Life of Dr Matt Padula

From putting a Mass Spectrometer back together to performing protein extractions on microalgae, gain insight into Dr Matt Padula's very busy and crucial role in the UTS Science labs.

Blog

Behind the Scenes - Tour - Dr Maiken Ueland

Go behind the scenes with Dr Maiken Ueland as she takes you through the unique Australian Facility for Taphonomic Experimental Research facility and shows how she analyses the scent of human victims in mass disasters.

Video

Behind the Scenes - Dr Irina Kabakova & Dr Josh Chou

Explore the state-of-the-art technologies used to artificially replace unhealthy tissues and trigger bone regeneration in the human body.

Video

Jackson Eather

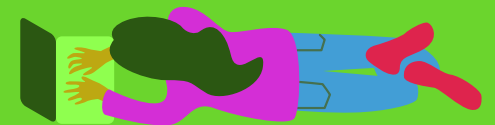
Join Jackson and his archaeopteryx Archie on a high-flying adventure to learn how dinosaurs evolved into modern birds and how flying works!

Dinosaurs in the Sky

Why do planes fly?

How to make a dinosaur?

Video Series



Live Event

Australian National Maritime Museum

Exploring Unseen Oceans

1.30pm 19 August

Underwater Robotics

1.30pm 21 August

Sydney Observatory

Live from the Sydney Observatory

6.30pm 22 August

ANSTO

Behind the Scenes of Big Science

7pm 19 August

Crawford Fund

Science for Food Security: Making a Global, Professional and Personal Difference

10am 18 August

Soapbox Science

Training your immune system to work smarter not harder with Hannah Law

7pm 18 August

BryoFight Club how mosses can live in Antarctica with Dr Melinda Waterman

9pm 18 August

Solar Energy: photon pokemon, gotta catch em all with Dr Siobhan Bradley

8pm 19 August

Preschoolers views on technology design: thinking like a child with Dr Holly Tootell

9pm 19 August

Coral matchmaking for a resilient reef with Dr Jennifer Matthews

7pm 20 August

Fitbits for Sharks: How do we study sharks in the ocean?

9pm 20 August

Kings of slime and grime: why maggots are our new best friends with Assoc. Prof. Michelle Harvey

8pm 20 August

UNSW

Life Among the Stars

6.30pm 17 August

Eating for the Planet

6.30pm 18 August

We Still Need to Talk About Climate Change

6.30pm 19 August

The World According to Physics

6.30pm 20 August

The Sydney Science Trail is proudly supported by: ANSTO, ABC Radio Sydney, Macquarie University, University of Technology Sydney (UTS), NSW Government (Department of Education – DART Connections) and Inspiring Australia as part of National Science Week.

[#australianmuseum](#) [#RBGSydney](#)

This program schedule is current at time of production and may be subject to change.

