







In 1969, the first images of the historic Moon Landing were broadcast around the world from Honeysuckle Creek Station. To celebrate the 50th anniversary, ANU and the ACT Government, along with partner institutions and community groups, are hosting a five-day program of events and activities – from stargazing and public lectures to space school and space trivia – which will capture the imagination and explore our understanding of the Moon and the Universe.



JULY EVENTS

Promised the Moon

20 June - 26 July 2019

10.30am-5pm, Tuesday - Friday

Main Gallery, ANU School of Art and Design, 105 Childers Street

Cost: Free

Fifty years after the Apollo 11, artists reflect on the first moon landing and the Canberra region's role in this unique mission. The anniversary is an opportunity to reflect on the historic period of the lunar landings during NASA's Apollo missions, including their motivations, influences and repercussions. It is also an opportunity to celebrate the ACT's important contribution and its unique space heritage.

Long Way Around

17-28 July 2019

10am-6pm (Monday – Friday); 11am-5pm (Saturday and Sunday)

aMBUSH Gallery, Level 2, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

'Long Way Around' is an exhibition of artwork by ANU School of Art & Design Printmedia and Drawing students made in response to visual, sensory, and conceptual elements of Mt Stromlo Observatory. The exhibition includes pieces that engage with the scientific research carried out on site; investigate concepts including light pollution, space junk and meteorites; consider the effect of fire damage on the landscape and architecture; and evoke experiential qualities of sound, light and nature. Through prints, drawings, sculptural, light and sound-based works, it presents a diverse range of approaches to exploring space through art.

Questacon

Apollo 11 50th Anniversary Exhibition

1 July - 31 December 2019

9am-5pm, daily

Questacon - National Science and Technology Centre, King Edward Terrace, Parkes ACT

Cost: Paid – part of Questacon general entry ticket

Registration: shop.questacon.edu.au/

Geoscience Australia

Touch a piece of the Moon!

The display opens on Friday 5 July 2019 and will be available from Monday to Friday, 9am-5pm

Cost: Free

General enquiries: (02) 6249 9111 or visit ga.gov.au/news-events/events/public-events/lunar-touchstone

Come to see – and lay your hands on – the only lunar touchstone in the Southern Hemisphere. It is one of only 11 around the world.

The sample on display is a piece of the original rock collected from the Moon during the 17th and final Apollo manned-mission in December 1972.

National Museum of Australia

Tracking Apollo: 50 years since the Moon landing

Dates of exhibition: 1 July - 18 August 2019

9am to 5pm, daily

Gandel Atrium

Cost: Free

Website: nma.gov.au/tracking-apollo

The Apollo 11 Moon landing was a triumph of global collaboration and scientific research. Across the world, hundreds of thousands of people contributed to its success, including many Australians.

The Honeysuckle Creek tracking station, just outside of Canberra, was part of an international network supporting the Apollo Missions. Its specialist staff, known as trackers, enabled real-time communication between NASA and the astronauts in deep space.

Equipment from the Honeysuckle Creek station will be on display, including the antenna's track ball and a tracker's headset, along with some commemorative memorabilia. A large console from the Orroral Valley tracking station, now part of the National Museum's collection, will also be on display.



Wednesday 17 JULY

Partial lunar eclipse

The partial eclipse (when the moon darkens) will begin at 6.01am and will be visible until approximately 6.30am (weather permitting). The eclipse can be viewed from anywhere with a clear view to the west.

The Boom gate at Mt Stromlo will be opened from 5am. Please note that no facilities will be open during this time and warm clothing is highly recommended.

Mount Stromlo Public Astronomy Night

6.30-9pm

Mount Stromlo Observatory Visitor Centre, via Cotter Road, Weston Creek

Cost: Entry by gold coin donation

Registration: anu.edu.au/events/mso-astronomy-night

Mount Stromlo Observatory, in conjunction with the Canberra Astronomical Society, invites the Canberra community to attend one of our public observing nights of 2019. Come and see the rings of Saturn, the craters of the moon as well as beautiful star clusters and nebulae. On the night, attendees will be taken on a 'tour of the universe' with talks by NASA scientists and observations on several telescopes.

Warm clothing is recommended. In the event of cloudy/bad weather, star gazing will be cancelled and all registrants will be contacted via Eventbrite. The talks will go ahead regardless of the weather.

Thursday **18 JULY**

Space Bus Tour

9.30am-4.30pm

Cost: \$70 per person

Registration: anu.edu.au/events/spacebus-tour

Take a guided tour around Canberra's space and Moon sites. Guests will be able to see, touch, and even walk on the Moon. Stops will include Mt Stromlo Observatory, NASA's Tidbinbilla Tracking Station, the old Honeysuckle Creek Tracking Station, and Geoscience Australia. Lunch is included in the ticket price.

Space School

12-2pm

Marie Reay Teaching Centre, Building 155, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/space-school-thursday

Recommended age range: 3-13 years old (pre-school, primary school and early high school aged students)

Through a range of activities, demonstrations, and play, students will explore our solar system and beyond alongside experts in the field from Australia and around the world. We will design and test rockets, do some explosions, simulate asteroid impacts, build a Mars base, try on spacesuits, and ask – what does it take to get to space? What is it like to be up there? And how can we learn more about space, when it's so far away?

Space Rocks: Moon, Mars, and Beyond

1-4pm (30 minute sessions)

Marie Reay Teaching Centre, Building 155, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/spacerocks-thursday

See and touch fragments of other worlds. This temporary exhibit will display meteorites from as close to home as the

Moon, to as far as the Asteroid Belt and beyond. You'll have a chance to see the building blocks of the first planets, learn how our Moon was formed, see how Mars may have once hosted life, and why Earth is unique in this star system. You can also hear the inner workings of other worlds with recordings of Earth, Moon and marsquakes.

Community Film Screening: Wall-E

2-3.45pm

Cinema, Cultural Centre Kambri, Building 153, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/wall-e

The Moon Week Film Festival blasts off with Pixar's Oscar-winning 2008 animated masterpiece! In the distant future, a waste-collecting robot named WALL-E spends his days tidying up the abandoned planet, believing he's the last robot on Earth. That is, until he meets a fellow robot and embarks on a journey into space that changes the fate of mankind.

Presented in partnership with the ANU Film Group.

Space: past, present and future

7-8.30pm

Llewellyn Hall, ANU School of Music, Building 100, William Herbert Place

Cost: \$10 per person

Registration: anu.edu.au/events/space-past-present-and-future

For one night only, join Dr Andy Thomas, Australian Astronaut and a panel of leading space experts for a conversation about *space: past, present and future.* Hear about Dr Thomas' time in space, moving without gravity and some of the projects pushing the frontiers of space discovery.

Following the discussion, you will have a chance to participate in a Q&A.

Friday 19 JULY

The NASA Communications Switching Centre

9.30-10.30am

Manning Clark Hall, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/the-nasa-communications-switching-centre

The NASA Communications Switching Centre was established at 107 Kent St Deakin in the second half of 1965. It was the central point for control of all communications between Australia and NASA centres, including Houston, for the Apollo program.

The Switching Centre supported all NASA missions until its closure in 1988.

The building is now known as the Deakin Telephone Exchange, and as part of the of the Apollo 11 Anniversary celebrations a plaque will be unveiled commemorating 107 Kent Street's role in Manned Space exploration.

Space School

11am-1pm

Marie Reay Teaching Centre, Building 155, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/space-school-friday

Recommended age range: 3-13 years old (pre-school, primary school and early high school aged students)

Through a range of activities, demonstrations, and play, students will explore our solar system and beyond alongside experts in the field from Australia and around the world. We will design and test rockets, do some explosions, simulate asteroid impacts, build a Mars base, try on spacesuits, and ask – what does it take to get to space? What is it like to be up there? And how can we learn more about space, when it's so far away?

(Blue)print the Moon: PhotoAccess workshop

12-3pm - come along for 15 minutes or stay for an afternoon

Meet at the Lawns, University Avenue, Kambri

Cost: Free

Suitable for: All ages

Registration: photoaccess.org.au/events

Humankind would never have built the Saturn V rocket or walked on the lunar surface without ... blueprints!

In this all-ages, hands-on workshop led by PhotoAccess artist Robert Agostino, explore how blueprints enabled our voyages to the Moon. Learn how to make blueprints, hear the history of this technique, create a map of the Moon and join a team to produce a life-sized copy of the blueprint for the Apollo 11 lander.

Blueprints are made with the cyanotype process, invented in 1846, which uses the Sun to create brilliant blue and white images. During this workshop, you'll mix your own cyanotype chemistry, coat and sensitise paper and make exposures. Using small objects, you'll design your own A3 sized prints and collaborate with others to create a giant blueprint of the lander or a complete map of the moon.

This is a kid and family-friendly event and all are encouraged to join in! The cyanotype process is completely non-toxic.

Andy Thomas' Space Academy

1-2pm

Manning Clark Hall, Cultural Centre Kambri, Building 153, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/space-academy

Have you ever thought about becoming an astronaut? How do you do it? What is it like? Join Australian Astronaut Dr Andy Thomas to hear and see his experiences about being an astronaut and learn how you can become one as well!

Extra-terrestrial Seismology: Listening to the Pulse of the Moon and Mars

1-2pm

Theatre 2, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/moon-mars-pulse

Earth seismograms are of short duration and the largest amplitudes are associated with seismic waves travelling directly from the source (the earthquake), to the recording sensor (the seismic station). Compared to Earth, lunar records have a quite atypical "rumble". Before the placing of a seismometer on Mars in the frame of the recent NASA InSight mission, it was imagined that Martian seismograms would be similar to Earth seismograms. The first seismogram returned from Mars dispelled that illusion. And this brings back the InSight team to scrutinize even more the lunar data.

In the frame of the 50th anniversary of the Moon landing, we will train our ears, and eyes, to recognize the Earth, Moon and Mars from their pulses. Listening to the pulse of these planets is a path towards understanding the formation and evolution of the inner solar system.

Space Rocks: Moon, Mars, and Beyond

1-4pm (30 minute sessions)

Marie Reay Teaching Centre, Building 155, University Avenue, Kambri Cost: Free

Registration: anu.edu.au/events/spacerocks-friday

See and touch fragments of other worlds. This temporary exhibit will display meteorites from as close to home as the Moon, to as far as the Asteroid Belt and beyond. You'll have a chance to see the building blocks of the first planets, learn how our Moon was formed, see how Mars may have once hosted life, and why Earth is unique in this star system. You can also hear the inner workings of other worlds with recordings of earth, moon and marsquakes.

Community Film Screening: Zathura

2-4pm

Cinema, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/zathura

Two young brothers play a mysterious board game they find in the basement of their house and find themselves magically teleported into outer space. There, they encounter a stranded astronaut who attempts to help them return home. This 2005 sci-fi adventure is directed by Jon Favreau (*Iron Man*) and features actors Josh Hutcherson and Kristen Stewart in early starring roles.

Presented in partnership with the ANU Film Group.

Space Technology – public lecture

2.30-3.30pm

Theatre 2, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/space-technology

50 years ago, humans first set foot on the Moon. What will we be celebrating in the next 50 years? And what do we need to build and invent to get there? Hear from leading scientists at NASA and Australia to see what is being developed to lead to the next big space achievements.

Artist talks: Long way around

4.30-5.30pm

aMBUSH Gallery, Level 2, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/student-artwork

Students from ANU School of Art & Design discuss their work in the exhibition 'Long Way Around'. The students will speak about the processes and ideas behind their works made in response to Mt Stromlo Observatory.

Community Film Screening: First Man

5-7.30pm

Cinema, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/first-man

Ryan Gosling stars as astronaut Neil Armstrong in director Damien Chazelle's (*La La Land*) acclaimed, award-winning 2018 biographical drama. The film follows Armstrong and the trials and tribulations he endured in the years leading up to the legendary Apollo 11 mission, which saw him become the first man to walk on the Moon on July 20, 1969.

Presented in partnership with the ANU Film Group.

Fireside Chat with Wally Bell

5.30-6.30pm

Meet outside Badger & Co, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/fireside-chat-friday

Join Ngunawal Elder Wally Bell beside the fire-pit and listen to him share stories and enlighten people about Indigenous history.

Tracking Apollo: 50 years since the Moon landing

6-7.30pm

National Museum of Australia, Lawson Crescent, Acton Peninsula

Cost: \$15 adult, \$10 concession, \$7.50 Museum Friends

Bookings essential: nma.gov.au/whats-on/tracking-apollo

In July 1969, Honeysuckle Creek Tracking Station played a vital role in the Apollo 11 Moon landing when it transmitted the first images of Neil Armstrong walking on the Moon to a global audience.

Hosted by Andrew Tink, author of Honeysuckle Creek: The Story of Tom Reid, a Little Dish and Neil Armstrong's First Step, our panel will discuss how the tracking station on the outskirts of Canberra came to be involved in the mission; the challenges and technical

complications the team faced; and the role Australia played in this defining moment in history.

The panel includes trackers who were at Honeysuckle Creek 50 years ago: Deputy Director, Mike Dinn, Operations Supervisor John Saxon and technicians Bryan Sullivan and Gillian Schoenborn.

Indigenous Stargazing

6.30-8pm

Meet at the Lawns, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/indigenous-stargazing

Did you know that Aboriginal peoples are considered the world's first astronomers? Come along and hear our Indigenous astronomer, Pete Swanton, chat about Australia's rich and extensive history of stargazing and how it differs from Western methods that we often use today. You'll even have the chance to look through our telescopes and see some of these objects.

Warm clothing is recommended. In the event of cloudy/bad weather, star gazing will be cancelled and all registrants will be contacted via Eventbrite.

Space in the Pub

8-10.15pm

Badger & Co., University Avenue, Kambri

Cost: Free event

Registration: anu.edu.au/events/space-in-the-pub-one-giant-leap

Enjoy a beverage at Badger and Co as we take-off with a free Q&A event moderated by ABC Radio Canberra's Lish Fejer and a panel of experts who will share their views on the future of space exploration and the global space industry. This is your chance to hear from a Nobel Laureate, local politician and NASA specialists – all with a keen interest in space.

You'll then get the chance to test your knowledge against these experts in space-themed trivia with great prizes like a stargazing experience, Badger & Co meal vouchers and space merchandise. Register online to secure a table and go in the running to win a special door prize (walk-ins are welcome on the night, conditional on space).

Community Film Screening: Apollo 11

8.15-10pm

Cinema, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/apollo-11

Head back in time to the year 1969 with this Canberra premiere screening of this critically acclaimed 2019 documentary chronicling the Apollo 11 mission.

Thrillingly told using never-before-seen archival footage and audio recordings, this film takes you straight into the heart of NASA's most celebrated mission, the first to land humans on the Moon.

This screening will be introduced by producer Stephen Slater, who supplied much of the previously-unseen footage and recordings of the Apollo 11 mission from his own personal collection for use in the film.

Saturday **20 JULY**

Space School

12-2pm

Marie Reay Teaching Centre, Building 155, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/space-school-saturday

Recommended age range: 3-13 years old (pre-school, primary school and early high school aged students)

Through a range of activities, demonstrations, and play, students will explore our solar system and beyond alongside experts in the field from Australia and around the world. We will design and test rockets, do some explosions, simulate asteroid impacts, build a Mars base, try on spacesuits, and ask – what does it take to get to space? What is it like to be up there? And how can we learn more about space, when it's so far away?

(Blue)print the Moon: PhotoAccess workshop

12-3pm - come along for 15 minutes or stay for an afternoon

Meet at the Lawns, University Avenue, Kambri

Cost: Free

Suitable for: All ages

Registration: photoaccess.org.au/events

Humankind would never have built the Saturn V rocket or walked on the lunar surface without ... blueprints!

In this all-ages, hands-on workshop led by PhotoAccess artist Robert Agostino, explore how blueprints enabled our voyages to the Moon. Learn how to make blueprints, hear the history of this technique, create a map of the Moon and join a team to produce a life-sized copy of the blueprint for the Apollo 11 lander.

Blueprints are made with the cyanotype process, invented in 1846, which uses the Sun to create brilliant blue and white images. During this workshop, you'll mix your own cyanotype chemistry, coat and sensitise paper and make exposures. Using small objects, you'll design your own A3 sized prints and collaborate with others to create a giant blueprint of the lander or a complete map of the moon.

Space storytelling

1-1.30pm

Theatre 2, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/spacestorytelling

Join artists and storytellers from NASA and ANU to learn how we turn scientific space discoveries into stories the public can understand and enjoy.

Space Rocks: Moon, Mars, and Beyond

1-4pm (30 minute sessions)

Marie Reay Teaching Centre, Building 155, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/space-rocks-moon-mars-and-beyond

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Moon Geology

1.45-2.15pm

Theatre 2, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/moon-geology

Hear from Dr Everett Gibson (NASA) and ANU scientists who were in charge of analysing the rocks from the Moon collected by the Apollo astronauts; and learn about the secrets they have unlocked of the Moon.

Community Film Screening: Apollo 11

2.15-4.15pm

Cinema, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/Apollo-11-saturday

Head back in time to the year 1969 with this Canberra premiere screening of this critically acclaimed 2019 documentary chronicling the Apollo 11 mission. Thrillingly told using never-before-seen archival footage and audio recordings, this film takes you straight into the heart of NASA's most celebrated mission, the first to land humans on the Moon.

This screening will be introduced by producer Stephen Slater, who supplied much of the previously-unseen footage and recordings of the Apollo 11 mission from his own personal collection for use in the film.

Presented in partnership with the ANU Film Group.

Space Health

2.30-3pm

Theatre 2, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/space-health

Join a panel of Australia's leading experts on space health for an interactive talk about the physical and mental health issues astronauts have encountered and what it means for future space explorers!

Space Tech

3.15-3.45pm

Theatre 2, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/space-technology-popup

How will humans get back to the Moon by 2024? What technology will be needed to get there? Join Professor Christine Charles (ANU) and Chris Culbert (NASA) as they talk about the technology needed to see humans' return to the Moon.

Space law

4-4.30pm

Theatre 2, Cultural Centre Kambri, Building 153, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/space-law

Space piracy is a real worry of the future. The law and regulation of space is a difficult one. Hear from representatives from the Australian Space Agency and private space companies about the issues of future space exploration and travel.

Community Film Screening: *The Dish*

5-7pm

Cinema, Cultural Centre Kambri, Building 153 University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/the-dish

Sam Neill stars in this 2000 comedy-drama that takes a semi-fictionalised look at the days before the Apollo 11 space mission in 1969, as a team of Australian technicians work alongside NASA to transmit live images of the moon landing around the world. Based on events that took places at the Parkes Observatory and the Honeysuckle Creek Tracking Station near Canberra.

Presented in partnership with the ANU Film Group.

Fireside Chat with Wally Bell

5.30-6.30pm

Meet outside Badger & Co, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/firesidechat-saturday

Join Ngunawal Elder Wally Bell beside the fire-pit and listen to him share stories and enlighten people about Indigenous history.

The Astronomy and Navigation of Aboriginal Australians (followed by stargazing)

6.30-8.30pm

Theatre 2, Cultural Centre Kambri, Building 153, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/indigenous-astronomy

Aboriginal people in Australia have a rich astronomical tradition such as the "Emu in the Sky" constellation of dark clouds, and stories about the Sun, Moon, and stars, revealing a great depth and complexity of ancient Aboriginal cultures. Not only did they know the sky intimately, but they were familiar with planetary motions, tides, and eclipses. Their songs and stories show that Aboriginal Australians sought to understand their Universe in a similar way to modern science. They used this knowledge of the sky to construct calendars, songlines, and other navigational tools, enabling them to navigate across the country, trading artefacts and sacred stories.

Stargazing with the audience will follow the lecture outside the Cultural Centre in Kambri.

Professor Ray Norris is an astrophysicist at CSIRO and Western Sydney University, and is also known as a popular science speaker.

Community Film Screening: *The Martian*

7.30-10.15pm

Cinema, Cultural Centre Kambri, Building 153, University Avenue, Kambri

Cost: Free

Registration: anu.edu.au/events/the-martian

Finish off the Moon Week Film Festival with the box office hit *The Martian*. ANU Professor Penny King and NASA research scientist Dr Abigail Fraeman will introduce the movie and chat about their own experiences with Mars.

An astronaut (Matt Damon) on a manned mission to Mars is presumed dead by his crew after a fierce storm. Left behind on the red planet with only meagre supplies, he must draw upon his ingenuity and wit to stay alive and find a way to signal to Earth that he is alive. Director Ridley Scott's sci-fi film was a critical and commercial hit upon release in 2015.

Sunday 21 JULY

Lunar Family Day @ Questacon

9am-5pm

Questacon - National Science and Technology Centre, King Edward Terrace, Parkes ACT

Tickets: - Questacon.edu.au

Bring the family to Questacon for a space themed day of activities to commemorate the 50th Anniversary of the Moon Landing.

Tidbinbilla open day

9am-5pm

(Dish opens, 10am-4pm)

Canberra Deep Space Communication Complex

421 Discovery Drive, Tidbinbilla (Paddys River District) ACT

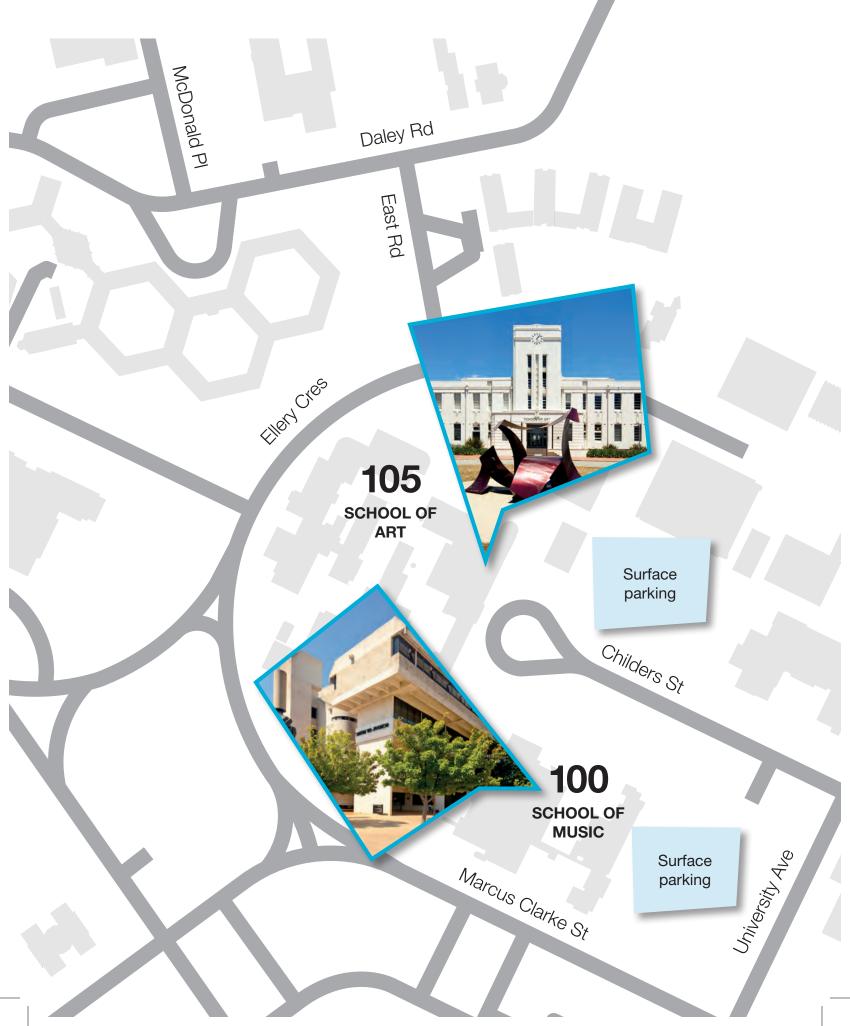
Cost: Free

More information: apollo11.csiro.au/canberra-open-day

50 years ago a group of Australians working at a tracking station nestled in the hills of Canberra, received and broadcast the TV images of Neil Armstrong's first steps on the Moon.

Here is your chance to relive that moment under the actual antenna dish that helped make that historic moment possible.

ANU CAMPUS MAP



Creek Ra

Surface parking

BADGER & CO

North Ra

155

MARIE REAY **TEACHING** CENTRE

153

CULTURAL CENTRE

Tangney Ro

UNIVERSITY AVE

Underground parking



Kingsley St

Hutton St

Childers St



























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