

# Ely Cathedral Science Festival

## The Sky's The Limit

Saturday 18 May - Sunday 9 June

A spectacular science event to celebrate the 50th anniversary of the first moon landing and explore what the future holds for humanity.

Lift up your eyes and experience the Museum of the Moon, a 7 metre diameter lunar replica hovering above the Cathedral's nave.

Come and explore the wonders of space through themed activity nights, an interactive 'space' exhibition including space suits and meteorites.

Experience the National Space Centre's Star Dome.

Immerse yourself in talks on space travel, aliens and the future of our planet given by leading experts including the Astronomer Royal and presenters from The Sky at Night.

Adults £9. Children free. Includes entry to the Cathedral. (Prices do not include special events)



### Museum of the Moon

Museum of the Moon by UK artist Luke Jerram will be on display in the Cathedral's nave throughout the Science Festival. Measuring an impressive seven metres in diameter, the moon features detailed NASA imagery of the lunar surface. At an approx scale of 1:500,000, each cm of the internally lit replica represents 5km of the moon's surface. This extraordinary installation is a fusion of lunar imagery, moonlight and surround sound composition created by BAFTA and Ivor Novello award winning composer Dan Jones.

### Space Exhibition

Orbiting around the Museum of the Moon will be a display of intriguing and inspiring exhibits including a replica of the space suit worn by Neil Armstrong, an ancient star atlas, astronomical diagrams from the 17th century and the first ever printed map of the moon, on loan from the Institute of Astronomy. There will be fragments of Meteorites and space food for astronauts including a bacon sandwich made in collaboration with Heston Blumenthal for Tim Peake's trip to the International Space Station. The quirkiest item in the exhibition has to be a Space toilet! There will also be exhibits from the Cambridge Science Centre and a stunning lunar-inspired art exhibition called 'Moon-shot: Woman on the Moon' by ESERO-space Ambassador, Helen Schell. These large scale works of art will utilise the magnificent setting of the Cathedral and encourage visitors to explore the space themed exhibits on display.



### A Night at the Cathedral

As part of the Science Festival we are hosting two open evenings in the Cathedral on Monday 20 & Wednesday 29 May.

Let your imagination wander as you have the opportunity to explore the numerous Science Festival exhibits including meteors and space suits under the spectacular 'Museum of the Moon' suspended from the Nave ceiling.

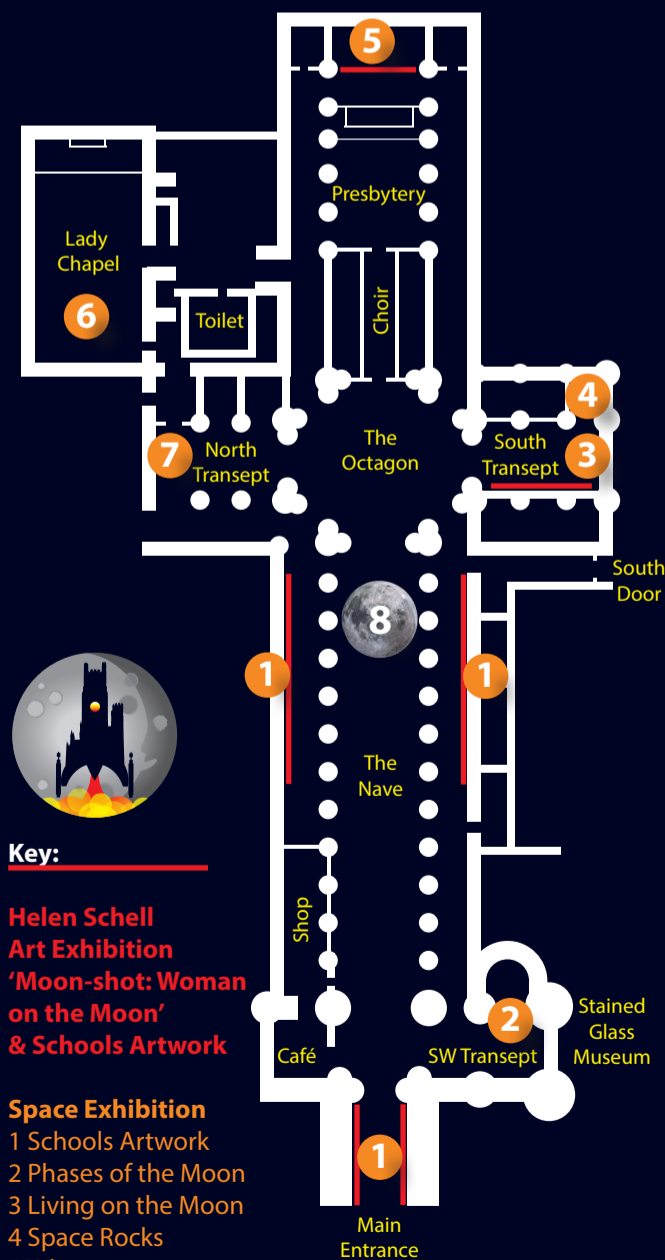
There will be the opportunity to participate in interactive displays including Robotics, Meteorites, Space Science and Molecular Biology. Visitors will be encouraged to handle some of the exciting range of rocks from the moon, on loan from the Science and Technology Funding Council and explore key topics such as space travel through interactive exhibits around the Cathedral.

One of the highlights is a 20 minute tour of the night sky inside a six metre wide 'Star Dome' belonging to the National Space Centre\*, plus plenty of other attractions.

Free Entry.  
\*There will be a charge of £5 for the Star Dome. Tickets available online. Children under 10 must be accompanied by an adult.



### Explore the Science Festival



### Travelling to Ely

Situated in the heart of East Anglia, and close to Cambridge, Ely is well serviced by excellent road and rail routes.

### By Road

If travelling by car, there are numerous free car parks close to the Cathedral and the historic city centre.

### By Rail

Ely railway station is only a short walk from the Cathedral with direct train connections to London, Norwich, Cambridge, Peterborough and the North, Birmingham and Stansted Airport.

Please visit [www.elycathedral.org](http://www.elycathedral.org) for further information and tickets.

Box Office: 01353 660349

[www.elycathedral.org](http://www.elycathedral.org)

Follow us on:

Dates and times correct at time of going to press. Please visit our website for any unscheduled changes, cancellations or closures.



ELY CATHEDRAL  
SCIENCE FESTIVAL  
THE SKY'S THE LIMIT!

Science Superstars shine in Ely!

Saturday 18 May - Sunday 9 June



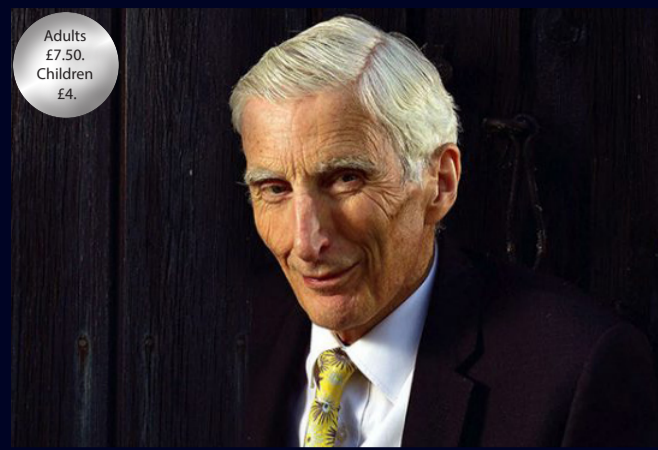
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Sunday 19 May, 6.30pm

**Keynote Lecture:**  
**Lord Rees, Astronomer Royal**  
**'On the Future: Prospects for Humanity'**



Martin Rees is an Astrophysicist and Cosmologist, and the Astronomer Royal. In this Keynote Lecture he will discuss themes from his recent book. Our Earth has existed for 45 million centuries but this is the first when one species - ours - has the planet's future in its hands. Advances in bio- and cyber-technology, and robotics could empower us to boost the developing world and overcome the threats humanity faces. At the same time, further advances in space science will allow humans to explore the solar system and beyond with robots and AI. But there is no 'Planet B' for our home if we do not care for it.

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**Monday 20 May**  
**Launch Day!**

5.30pm  
**Science Festival Evensong**

To launch the spectacular Ely Cathedral Science Festival all are invited to this celebratory service of Choral Evensong led by our Cathedral Choirs. The music will be out of this world and there will be a World Premiere performance of a new Science Festival Commission by Composer Tim Watts, Artist in Residence at The Institute of Astronomy at Cambridge University.

7- 9pm  
**A Night at the Cathedral with Grand Opening**

Do not miss one of only two opportunities to explore the Cathedral at night, gaze at the 'Museum of the Moon' suspended from the Cathedral's Nave ceiling, embark on a tour of the Stars and wonder at the fascinating exhibits and interactive displays. (See separate page for full details.)

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**Tuesday 21 May, 7pm**  
**Dallas Campbell**  
**'We Choose to Go to the Moon'**

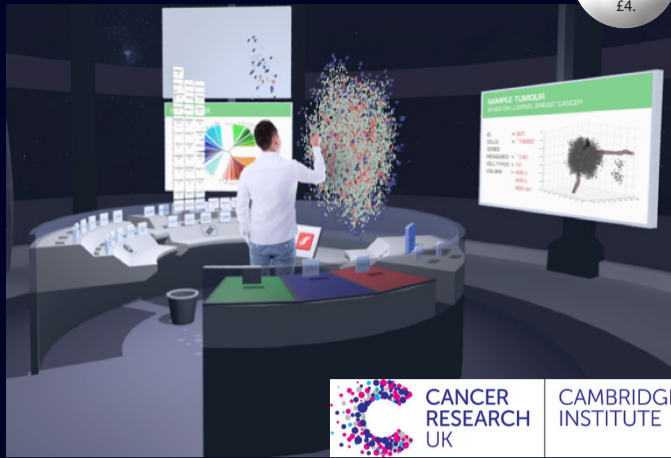


2019 marks the 50th Anniversary of the Apollo 11 moon landing. The culmination of 400,000 people working to meet J. F. Kennedy's impossible deadline, with technology that didn't yet exist, to explore a place that we knew nothing about. It has become one of history's defining moments. Join TV presenter and author Dallas Campbell for his hands-on grand tour of the science and history of human spaceflight. From those forgotten stories of the early space race, to those first footsteps on the moon to our future on Mars and beyond.

**Wednesday 22 May, 7pm**  
**A Trip to the Moon Film & Music Recital**

The Sun, Moon and Stars have long proved inspirational to composers. In this cosmically-themed organ recital, Edmund Aldhouse, Director of Music at Ely Cathedral, will perform awe-inspiring works which echo the music of the heavens and beyond including excerpts from *The Planets* by Holst, *Clair de Lune* by Vienne and the theme from *Star Wars*. Also included is an improvised soundtrack while we show the iconic silent movie *A Trip to the Moon* (1902).

**Thursday 23 May, 7pm**  
**Star Maps to Cell Maps**



A fascinating lecture and panel discussion from the Cancer Research UK team bringing together astronomy and cancer biology. To fully understand cancer, scientists need to know everything about a tumour. Having such a detailed picture would allow scientists and doctors to develop new ways to diagnose and treat the disease. With Cancer Research UK Grand Challenge funding, this project aims to build a 3D tumour that can be studied using virtual reality showing all the different types of cell in a tumour. Come and hear from some of the key researchers involved in this exciting project, and find out how astronomers are helping cancer biologists interpret cell data.

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**Friday 24 May, 7pm**  
**Chris Lintott**  
**'I Want To Believe: An Astronomer's Search For Aliens'**



The search for life in space dominates modern astrophysics, whether through new missions which will explore the oceans hidden inside the moons of Jupiter and Saturn, or the race to find extrasolar planets. Key events in space travel including the passage through the solar system of interstellar asteroid 'Oumuamua' and the discovery of most mysterious star in the Galaxy (aka Tabby's Star or WTF for 'Where's the Flux?') have raised questions about what we might recognise as alien. Astronomer and Sky at Night presenter, Chris Lintott, raised on a diet of science fiction, draws on his own research and experience to confront the awful truth that we might be alone!

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**Saturday 25 May, 7.30pm**  
**Fly Me To The Moon with 78RPM Big Band**

Come and sit under the light of the silvery moon and experience the big band sound of '78RPM Big Band' with well known jazz vocalist, Joanna Eden. Featuring a fantastic selection of swing and modern standards including Glenn Miller, Frank Sinatra and Ella Fitzgerald; pop from David Bowie and Van Morrison; well known film themes from far-flung galaxies; new arrangements of classic favourites from Holst and Strauss and some surprises that will delight an audience of all ages.

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**Sunday 26 May**  
**10.30am**  
**Science Festival Eucharist**  
**Preacher Revd Professor David Wilkinson**

A sung Eucharist including Jonathan Dove's masterful setting of words from the prophet Amos "Seek him that maketh the seven stars". Revd Professor David Wilkinson is a Methodist Minister, Theologian, Astrophysicist, Academic and Fellow of the Royal Astronomical Society. He is also the author of several books on the relationship between science and religion.

**2pm**  
**Doctor Who Uncovered with Special Guests**

Doctor Who is over 55 years old and is one of the world's most successful science fiction franchises. In its time, the show has tackled environmentalism, fascism, religious fanaticism, monsters made of bubble wrap and the eternal battle between good and evil. Join Frank Danes and very special guests for a rollercoaster voyage through time and space!

**Monday 27 May**  
**4pm Children's Lecture / 7pm Keynote Lecture**  
**Dr Maggie Aderin-Pocock MBE**  
**'Moon-Past, Present and Future'**



The moon has fascinated humankind since the beginning of history. But far from being just a big rock out in space, the Moon has a phenomenal power over the earth - to create great waves, dictate the length of the day and summon the seasons. In this very special lecture, lunar expert and TV presenter, Dr Maggie Aderin-Pocock, will guide you through the Moon's Past, Present and Future, contemplate how it was formed, and uncover why we need the Moon to protect our fragile earth. Drawing on the latest scientific research, she also looks forward to what might come. Will we return to the moon or will it become a launch pad to go into the great unknown? Filled with fascinating facts and anecdotes, Dr Maggie talks with warmth and passion on her favourite subject.

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**Tuesday 28 May**  
**4pm Children's Lecture**  
**7pm Adult Lecture**  
**Matthew Bothwell**  
**'Exploring the Universe'**

**Free Entry!**



Matt is an outreach astronomer at the University of Cambridge's Institute of Astronomy, specialising in Science Communication. As an observational astronomer, he uses a range of state-of-the-art observing facilities to study the evolution of galaxies across cosmic time. In these lectures Matt takes us on a fascinating journey through the wonders of the universe.... and beyond.

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**Wednesday 29 May**  
**10am - Noon**  
**Science Festival Holiday Drop-in**

A chance for young children and families to experience the Museum of the Moon and Science Festival Exhibition with interactive stalls and crafts.

**7 - 9pm**  
**A Night at the Cathedral II**

The second Night At The Cathedral event providing a final opportunity to explore the exhibition, interactive displays and experience the National Space Centre's Star Dome. (See separate page for full details)

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**Thursday 30 May**  
**6pm Pre-Service Lecture / 7.30pm Eucharist**  
**Ascension Day Eucharist**  
**Preacher Dr Andrew Davison**

On Ascension Day the church remembers that Christ ascended from the earth into the heavens. We explore the theme of 'Ascending into the heavens' in our worship with guest preacher Dr Andrew Davison. Andrew works at the intersection of theology, science and philosophy and will be giving a short pre-service lecture at 6pm.

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**Sunday 2 June, 8pm**  
**Compline by Moonlight**

This ancient, meditative service was sung by monastic communities at the end of the day before sleep. In the beautiful surroundings of Ely Cathedral, lit by moonlight and candlelight, take in the Museum of the Moon and be transported to another world with ethereal music sung by the Lower Voices of Ely Cathedral.