

## Perseid Meteor Shower @ Killhope

Sun 12 Aug, 6pm to 1am

Killhope Museum, Upper Weardale

Adults - £4; Children/concessions - £2. **Pre-booking essential**

A special festival 'launch-pad' event with a range of activities – rocket launching, folk music, projected astronomical images and drop-in space-themed workshops. From 10pm, lie back in deck chairs to enjoy 60 to 70 shooting stars an hour.

Special festival 'launch-pad' event this August

## Star Camp

Fri 19 – Sun 21 Oct

Doe Park Caravan Site, Teesdale

Pitch fees + £8.50 per person per night 'astronomy charge'.

**Pre-booking essential**

Join experienced astronomer Richard Darn and friends for the first ever two-night star camp under the North Pennines sky. Telescopes will be provided, together with expert guidance, talks and solar observing.



## Silk Painting a Constellation

Sat 20 Oct, 1.30 to 3pm

The Witham, Barnard Castle

Children - £6 (accompanying adults free) **Pre-booking essential**

Explore the dark skies and stars creatively with artist Gemma McCall from Suitcase Studios. Learn how to paint on silk and create your own constellation! Aimed at 4–11 year olds but all welcome.



## The Science of the Moon and the Stars

Sat 20 Oct, 7.30pm

The Witham, Barnard Castle

Adults - £10; Under 18s - £5; Families - £25. **Pre-booking essential**

We are delighted to welcome Dr Maggie Aderin-Pocock MBE to the Stargazing Festival. At this headline event she will be looking at the wonders of space and what it can teach us – as well as offering insights into the world of space exploration and a perspective on women in science and engineering.

As well as fronting *The Sky at Night*, Maggie has appeared in many programmes, including *Stargazing Live*, *The Science of Doctor Who*, and *In Orbit: How Satellites Rule Our World*.



## Solar System Walk & Diorama Workshop

Sun 21 Oct, 10am to 12noon, 12.30 to 2.30pm, and 3 to 5pm

Bowlees Visitor Centre, Upper Teesdale

Children - £5 (accompanying adults free). **Pre-booking essential**

Discover the planets on a guided walk to Gibson's Cave with Astro Joe then make a space-themed diorama with planets, space ships, aliens and real space dust. Suitable for ages 5+.



## Solar System Trail

Mon 22 Oct – Sun 4 Nov, 10am to 4.30pm

Bowlees Visitor Centre, Upper Teesdale

Children – 50p. **No need to book**

Follow the themed outdoor trail to discover the planets. If you unlock the secret word, win a space-themed prize!

## Pop-up Planetarium @ Stanhope

Mon 22 Oct: 11am, 12noon, 1pm, 2pm and 3pm

St Thomas' Church Hall, Stanhope

Adults - £5; Concessions - £2; Families - £10 **Pre-booking essential**

Journey through the universe in our spectacular planetarium dome. An immersive 45-minute show, suitable for all ages, with lots of new films. Repeated every hour, on the hour.



## Primary Rocket Workshop (Ages 5-10)

Tues 23 Oct, 10am to 12noon

South Tynedale Railway, Alston

1 Child/1 Adult - £5; 2 Children/2 Adults - £10. **Pre-booking essential**

Build and launch an air-powered stomp paper rocket – how far will it fly? All materials supplied. Suitable for ages 5-10 years.

## Secondary Rocket Workshop (Ages 11+)

Tues 23 Oct, 2 to 4pm

South Tynedale Railway, Alston

1 Child/1 Adult - £5; 2 Children/2 Adults - £10. **Pre-booking essential**

Build and launch an air-powered bottle rocket – how far will it fly? All materials supplied. Suitable for ages 11+.

## Alston Skywatch

Tues 23 Oct, 7 to 9pm

South Tynedale Railway, Alston

Adult - £10; Child - £5; Families - £25. **Pre-booking essential**

Our night of stargazing begins with a short chat about the night sky and a quick introduction to the equipment before we go outside. This is a 'hands on' event so you will learn how to move the telescopes around to discover things yourself.

The second North Pennines Stargazing Festival is running between 20 October and 4 November – during Half Term. A festival goer last year said: *"The Stargazing Festival was a fantastic series of events and kept us busy during the October half term. Skywatch at Killhope really opened up the night sky for us, and seeing the awe and wonder on my children's faces when they saw the Milky Way for the first time was a really special moment."*

## Highlights

- ★ Dr Maggie Aderin-Pocock MBE of 'Sky at Night' fame
- ★ Teesdale Star Camp
- ★ Skywatch events @ Killhope, Nenthead, Stanhope and Alston
- ★ Pop-up Planetarium days
- ★ Astronomy and space-themed talks and stargazing opportunities
- ★ Bottle rocket workshops
- ★ Stargazing suppers at the Lord Crewe Arms

## Booking information

You need to book in advance for most events in the festival – visit [www.NorthPenninesStarFest.org.uk](http://www.NorthPenninesStarFest.org.uk) to find out how.

- For evening events – wrap up warm and bring a red light torch (if you have one)
- Event details in this leaflet are a summary – see website for complete details
- Some events are booked through Eventbrite – published prices will have a booking fee added at checkout

## Find out more

For more information on stargazing in the North Pennines, go to:

[www.stargazingnorthpennines.org.uk](http://www.stargazingnorthpennines.org.uk)  
[www.thisisdurham.com/darkskies](http://www.thisisdurham.com/darkskies)  
[www.visitnorthumberland.com/darkskies](http://www.visitnorthumberland.com/darkskies)  
[www.darkskydiscovery.org.uk](http://www.darkskydiscovery.org.uk)  
[#NorthPennStarFest18](https://twitter.com/NorthPennStarFest18)  
[#NPennDarkSkies](https://twitter.com/NPennDarkSkies)

Landscapes for life  
 NORTH PENNINES  
 One of the AONB family

The North Pennines is one of England's most special places – a peaceful, unspoilt landscape with a rich history and vibrant natural beauty. In recognition of this it is designated as an Area of Outstanding Natural Beauty (AONB). The area is also a UNESCO Global Geopark.

The second North Pennines Stargazing Festival is running between 20 October and 4 November – during Half Term. Join us in the darkest mainland Area of Outstanding Natural Beauty to celebrate our fabulous night skies and enjoy jaw-dropping stargazing opportunities. There are 30 events over the two weeks all designed to unlock the wonders of the night sky – why not book on several and make a short break of it?

North Pennines AONB Partnership  
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The festival has been organised by the North Pennines AONB Partnership and has been supported by:



# North Pennines Stargazing Festival

20 October – 4 November 2018



**NORTH PENNINES**  
 Area of Outstanding Natural Beauty



United Nations  
 Educational, Scientific and  
 Cultural Organization



North Pennines  
 UNESCO  
 Global Geopark



### Discover the Constellations

Tues 23 Oct, 6 to 8pm

**Harehope Quarry Project, Weardale**

Adults - £5; Concessions - £2; Families - £10. **Pre-booking essential**

Discover the North Pennines 'dark skies' with local astronomer Bruce Ferguson. After an introductory indoor session, we will go out and do some stargazing (weather permitting). Not suitable for young children (under 8s).

### In the Dark Wild Wednesday

Wed 24 Oct, 10.30am to 12.30pm and 1.30 to 3.30pm

**Bowlees Visitor Centre, Upper Teesdale**

Children - £3 (accompanying adults free). **Pre-booking essential**

Discover the creatures that come out after dark. Craft activities and mini-beast walks aimed at children aged 4-13.

### Dark Side of the Moon – Planetarium Show

Wed 24 Oct: 6, 7, 8 and 9pm

**Nenthead Village Hall, Alston Moor**

Adults - £5. **Pre-booking essential**

Experience Pink Floyd's entire 'Dark Side of the Moon' album in the pop-up planetarium dome, with real-time visualisations and animations. The show lasts for 45 minutes, and takes place every hour, on the hour.

### Pop-up Planetarium @ Alston

Thur 25 Oct: 11am, 12noon, 1pm, 2pm and 3pm

**Alston Town Hall**

Adults - £5; Concessions - £2; Families - £10. **Pre-booking essential**

Journey through the universe in our spectacular planetarium dome. An immersive 45-minute show, suitable for all ages, with lots of new films. Repeated every hour, on the hour.

### A Night with the Stars

Thur 25 Oct, 7pm

**The Lord Crewe Arms, Blanchland**

Adults - £30. **Pre-booking essential**

Join us in the Gatehouse for an evening of stargazing for beginners with Joe Gordon. If the weather is clear, expect a trip to the bottom of our garden to have a look through the telescopes! There will be hearty stew and a delicious pud to keep you warm, with the fire pits lit, cosy blankets and hot chocolate.

### North Pennines at Night Exhibition

Sat 27 Oct, 12noon to 5pm

**Durham Dales Centre, Stanhope**

Free. **No need to book**

Projections of work by local photographers, featuring the dark skies and landscapes of the AONB. This is an immersive experience, shown on a 10-minute rolling basis.

### How Old Are You, Really?

Sat 27 Oct, 7 to 10pm

**North Pennines Observatory, Allenheads**

Adults - £5; Concessions - £2; Families - £10 (£1 discount for Observatory Members). **Pre-booking essential**

Astronomer and science educator Andy Gray explores how physics and chemistry created biology and how atoms that make up the human body are traceable back to the stars. Followed by stargazing (weather permitting).

### Skywatch Down Under

Sun 28 Oct, 3 to 5pm

**Durham Dales Centre, Stanhope**

£10. **Pre-booking essential**

Gary Lintern, astronomer and astrophotographer, introduces highlights of the spring sky in the Southern Hemisphere, live from the Australian Outback. Using a feed from a remote observatory, observe and photograph a number of objects which are only visible at the other end of the Earth.

### Skywatch Stanhope

Sun 28 Oct, 6 to 8pm

**Durham Dales Centre, Stanhope**

£10. **Pre-booking essential**

Guided by Gary Lintern, Chair of the North Pennines Astronomy Society, see the highlights of the autumn sky in the North Pennines. Also includes some remote observing on the big screen, with a live feed from the mountains of SE Spain.

### Searching for Life

Tues 30 Oct, 7 to 10pm

**Langdon Beck Hotel, Upper Teesdale**

Adults - £5; Concessions - £2; Families - £10 **Pre-booking essential**

Does ET really exist? Is there intelligent life out there and if so, how will we ever get in contact? Join astronomer Richard Darn on a colourful trip through the cosmos to find answers to this timeless conundrum. Followed by stargazing (weather permitting). Perfect for novices and children over eight.

### Tame Your Telescope

Tue 30 Oct, 7 to 9pm

**North Pennines Observatory, Allenheads**

Adults - £25 (£1 discount for Observatory Members).

**Pre-booking essential**

Do you have a telescope that you do not really know how to use? Join us to 'tame your telescope' with Gary Lintern and Andy Gray, both experienced astronomers and astrophotographers.

### Astrophotography – Milky Way & Waterfalls

Thur 1 Nov, 6.30 to 8pm and 8.30 to 10pm

**Bowlees Visitor Centre, Upper Teesdale**

Adults - £25. **Pre-booking essential**

Join Gary Lintern to learn the basics of astrophotography and nighttime landscape photography. After a discussion about equipment and techniques, we will head to Low Force. You will need a camera on which you can adjust the focus, shutter speed, aperture, and ISO manually and a tripod.

### Pop-up Planetarium @ Allendale

Fri 2 Nov: 11am, 12noon, 1pm, 2pm and 3pm

**Allendale Village Hall**

Adults - £5; Concessions - £2; Families - £10. **Pre-booking essential**

Journey through the universe in our spectacular planetarium dome. An immersive 45-minute show, suitable for all ages, with lots of new films. Repeated every hour, on the hour.

### Nenthead Mines Stargazing

Fri 2 Nov, 7 to 10pm

**Nenthead Mines, Alston Moor**

Adults - £5; Concessions - £2; Families - £10 **Pre-booking essential**

Starting with a talk from Andy Gray on 'Why Space Travel is Hard', exploring the science of travel, time and space. Then astronomers from Bishop Auckland Astronomical Society will be on hand with their telescopes for live stargazing (weather permitting).

### Cloud Chamber Workshop

Sat 3 Nov, 2 to 4pm

**North Pennines Observatory, Allenheads**

Free – sponsored by the Institute of Physics **Pre-booking essential**

Witness beautiful trails made by cosmic particles that pass through our world. Create your own mini-cloud chamber using dry ice and alcohol, then discuss how the chambers work and think about dark matter. Brought to you through Allenheads Contemporary Arts' Beyond Programme it is suitable for adults and children 12 and over.

### The Dark Side of the Universe

Sat 3 Nov, 7 to 10pm

**North Pennines Observatory, Allenheads**

Adults - £5; Concessions - £2; Families - £10 (£1 discount for Observatory Members). **Pre-booking essential**

Durham University lecturer Dr Peter Edwards sheds light on dark matter. Our universe is filled with mysterious dark matter, whose gravity provides the cosmic glue that holds it all together, and dark energy, which is slowly tearing the universe apart. Followed by stargazing (weather permitting).

### Close Encounters of the Third Kind

Sun 4 Nov, 6 to 10pm

**North Pennines Observatory, Allenheads**

Adults - £7.50 (£1 discount for Observatory Members). **Pre-booking essential**

A screening of Steven Spielberg's 1977 masterpiece, in association with Allenheads Contemporary Arts. This classic sci-fi film was digitally remastered in 2017 for its 40th birthday. Followed by stargazing (weather permitting).

