Northern Rocks 2007, running between 19 May and 3 June, is the fourth annual festival of North Pennine geology and landscape. The two weeks are packed full of over 40 events and activities to help you discover the geological secrets of the North Pennines.

Join a guided walk and see the North Pennines through fresh eyes; sign up for a geological holiday; ‘touch the rock’ with a qualified climbing instructor; explore old lead mines with expert guides; attend talks and exhibitions and try your hand at dry stone walling!

We can provide the information contained in this publication in large print, different formats and other languages on request. Please call 01388 528801 for details.

After you have finished with this brochure please give it to someone else to read, or recycle it.

The North Pennines AONB Partnership…
…is an alliance of 24 public, statutory and voluntary sector organisations. The AONB Partnership, through its Staff Unit, takes action to look after the natural beauty of the North Pennines and seeks to co-ordinate the efforts of others. It also raises awareness of the AONB’s special qualities. The Staff Unit administers the UNESCO European and Global Geopark status for the AONB.

The Northern Rocks Festival 2007 is an initiative of the

NORTH PENNINES AONB PARTNERSHIP
Working together for the North Pennines

and is being primarily supported by

North Pennines AONB Partnership, Weardale Business Centre,
The Old Co-op Building, 1 Martin Street, Stanhope,
County Durham DL13 2UY tel: +44 (0)1388 528801
www.northpennines.org.uk email: info@northpenninesaonb.org.uk

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Welcome to the fourth annual festival in celebration of the internationally recognised geology and landscape of the North Pennines Area of Outstanding Natural Beauty (AONB) and UNESCO European & Global Geopark.

How to book
Pre-booking is essential for many events. Look out for the ▼ symbol. Telephone the AONB Partnership Staff Unit for more information and to make bookings (unless otherwise stated):

- AONB Partnership Staff Unit – Tel: 01388 528801 (Mon to Fri during normal office hours, answering phone at other times)
- Events with a charge are either ‘pay on the day’ or ‘pay in advance’. When you book through the AONB Staff Unit we will advise you on payment details. Unless otherwise stated events are booked and paid for through the AONB Staff Unit.
- Once you’ve booked, please refer to the brochure for event start times and locations.
- We will not be sending out confirmation letters
- If you haven’t booked for an ‘Advance booking only’ event please don’t turn up on the day

Public transport
Some of the events in Northern Rocks are accessible by public transport. Call Traveline on 0870 608 2 608 or visit www.traveline.org.uk

Guided walks
The walks in the programme have been graded:

- Easy – suitable for most people. Easy, comfortable walking, may be some stiles
- Moderate – typically a country walk with some hills, stiles and muddy paths. Boots advisable

Events for families/age guide
Events and activities specifically designed for children are marked with the ▼ symbol. You will find further information on ages that specific events are aimed at (in relation to content) in the ‘Age’ section. The symbol ▼ is used on events that are considered too strenuous for under 16s – principally longer hill walks and underground tours. If in doubt please ring the AONB Partnership Staff Unit on 01388 528801 for further advice.

A joint venture
Northern Rocks 2007 has only been possible through the close co-operation of the following organisations and individuals:


Study Programme – Geology and Landscape of the North Pennines
Led by local geologist Brian Young on behalf of the AONB Partnership, this 10 week series of evening talks and field visits in summer 2007 will explore the geology and landscape of the North Pennines. Call the AONB Partnership on 01388 528801 with your details and we will send you further information when it is available.

Happy 200th birthday to the Geological Society of London!
The Geological Society of London (www.geolsoc.org.uk) is the oldest national geological society in the world and celebrates its 200th birthday in 2007. Some events in Northern Rocks are part of the Bicentennial Celebrations and focus on famous local geologists and special geological features of the North Pennines – look out for a mention in the event descriptions.
The programme at a glance

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Key to symbols used in the listings

**Event type**
- Guided walk
- Rock climbing
- Underground tour
- Guided bike ride
- Orienteering trail
- Walling workshop
- Nature/wildlife
- Exhibition
- Talk

**Other info**
- Advance booking only (call 01388 528801 for details, unless otherwise stated)
- Sorry, no dogs
- Wear suitable clothing
- Adults only
- Bring a packed lunch
- Important information
- Strong footwear essential

See the map on the inside of the back cover for event venues. Most of the guided walks are ‘Advance booking only’ – start times and locations are given in the brochure.
**Northern Rocks 2007**

**May**

**Fri 18 - Sun 20 May**

**Reading the Landscape - Part 1**

Ninebanks Youth Hostel/British Geological Survey

Tropical seas to freezing ice – Part 1 Join expert geologists for a weekend residential break to find out how to read and interpret the landscape of the North Pennines AONB and Geopark – a story 350 million years in the making!

**Venue**

YHA Ninebanks

**Cost**

£105 per adult (£160 for full package inc. Part 2: 20 - 22nd May – see page 7). Student discount rate £80 (£150 for full package)

**Age**

Adults and older children

Full outdoor clothing, waterproofs, walking boots and reasonable level of fitness required

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**Sat 19 - Sat 26 May**

**Geological Journeys**

BTCV/Killhope Lead Mining Museum

You’ll be working at Killhope Lead Mining Museum to help construct a footprint to a sculpture interpreting the surrounding landscape and its geological foundations. There’ll also be the chance to get involved in other Northern Rocks events.

**Venue**

YHA Ninebanks

**Cost**

£100 (all inclusive)

**Age**

Minimum age 16 years

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**Sat 19 May 10.30am - 4.30pm**

**Geology of Carrs Mine - Beyond the Show Mine!**

North Pennines Geology Trust

A guided trip to the rarely visited levels of Carrs Mine to look at some well preserved remains of large mineral workings. Includes a 30 minute talk at the start.

**Venue**

Nenthead Mines Heritage Centre

**Distance/grade**

1 mile (1.5km)/6hrs/Moderate

**Cost**

£12 - includes insurance and one year’s membership of NPHT. Pay in advance

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**Sat 19 May 10am - 4pm**

**In the Footsteps of the Teesdale Poet**

Neil Diment – Heritage Interpretation Services

You’ve heard the story – now walk the talk! Following Jim McTaggart’s talk the night before, we will broadly follow the route described in Richard Watson’s poem ‘My Journey to Work’. We will carry lunch in our miners’ ‘wallets’ and read from his work as we go.

**Meet**

Bainbridge Memorial Fountain, Middleton-in-Teesdale

**Distance/grade**

4 miles (6.5km)/6hrs/Moderate

**Cost**

£6 (inc. minibus transport). Pay in advance

**Age**

10 years +

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**Sat 19 May 7.30pm - 9pm**

**Around the Hollow Hills**

Jim McTaggart, former editor of the Teesdale Mercury

Most Victorian lead miners worked in dreadful conditions and died young. Jim McTaggart, the Teesdale Poet’s biographer, will give an insight into the lives of the lead miners and the ‘hollow hills’ that Richard Watson wrote about in his poems.

**Venue**

The Masonic Hall, Middleton-in-Teesdale

**Cost**

FREE

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**Sat 19 May - Sun 3 June**

**Magnificent Minerals!**

Killhope Lead Mining Museum

Come and admire the Elizabeth & David Hacker Collection of dazzling fluorite crystals, recently acquired for permanent display at Killhope.

**Venue**

Killhope, the North of England Lead Mining Museum

**Cost**

Normal Killhope charges apply

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**Sun 20 May 10am - 4pm**

**The Whin Sill and Upper Teesdale**

Durham University/Yorkshire Geological Society

Join geologist Trevor Morse on a journey through Upper Teesdale celebrating the Whin Sill’s impact on the local landscape, as part of the Geological Society Bicentennial Celebrations.

**Venue**

Killingshaw Shack picnic site, Forest-in-Teesdale

**Distance/grade**

4 miles (6km)/6hrs/Moderate

**Cost**

FREE

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**Sun 20 May 10am - 4pm**

**Toughing the Rock**

East Cumbria Countryside Project

Have a go at rock climbing with a fully qualified instructor. All climbing and safety equipment provided.

**Venue**

Appleby Broad Street car park

**Duration**

5hrs

**Cost**

£5 (inc. equipment) Pay in advance

**Age**

9 years +. Under 18s must be accompanied by an adult

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**Sun 20 May 10am - 4pm**

**Geology of Moor House at Knock**

Natural England

Geologist Eric Johnson will take us up towards Great Dun Fell, looking at Knock Ore Gill and explaining the geological features and mining history as we go. Find out what the rocks tell us about the history of the area.

**Venue**

National Nature Reserve entrance, by sheep pens at end of minor road past Knock Christian Centre

**Distance/grade**

7 miles (11km)/6hrs/Hard

**Cost**

FREE

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**Sun 20 May 1pm - 2pm and 3pm - 4pm**

**Mineral Mania**

Killhope Lead Mining Museum/Mad Science

Join in these family science workshops and have a go at fun activities based on rocks and minerals!

**Venue**

Killhope, the North of England Lead Mining Museum

**Cost**

Normal Killhope charges apply

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**Sun 20 - Tues 22 May**

**Reading the Landscape - Part 2**

Ninebanks Youth Hostel/British Geological Survey

Building on Part 1 (see page 6), this course explores the interaction between landscape, geology and people in and around the North Pennines. Suitable for anyone, but content is especially aimed at those who have attended Part 1 in this or previous years, or have a basic understanding of geology.

**Venue**

YHA Ninebanks

**Cost**

£105 per adult (£160 for full package inc. Part 1: 18 - 20 May – see page 6). Student discount rate £80 (£150 for full package)

**Age**

Adults and older children

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Mon 21 - Thurs 24 May

Extreme Geology!

Venue: Dufton, Allendale

Deneholme, Allendale

NY840 562

Cost £350 (includes all training, equipment, food and accommodation)

Age: Adults (18 years+)

Mon 21 May

9am - 5pm

Across to the Nick

Durham University/Newcastle University

Join Fred Worrall (Durham University) and Geoff Parkin (Newcastle University) for a discussion of the role of peatlands in carbon storage, and the interdependency of water, landscape and people. Part of the Geological Society Bicentennial Celebrations.

Venue: Dufton village car park

NY690 250

Cost FREE

Age: Adults (16 years+)

Fri 25 May

10.30am - 5pm

South Tyne Tour

Kilhope Lead Mining Museum/Brian Young – Local Geologist

Join Ian Forbes and Brian Young for an exploration of the upper South Tyne. See how rocks and minerals have shaped the landscape and people’s lives, and find out about one of Garrigill’s most famous sons. Keep a look out for gold and silver! Arrive at 10.30am.

Venue: Dales Centre, Stanhope

NY719 465

Cost FREE

Age: Adults (18 years+)

Fri 25 May

12noon – 5pm (Sat)

10.30am – 4pm (Sun)

Geofun!

Friends of Kilhope

Come along and make a mess learning about minerals! Part of the Friends of Kilhope Mineral Weekend (see above).

Venue: St John’s Chapel Town Hall

NY885 379

Cost £1. Pay on the day

Sat 26 - Sun 27 May

No need to book – just turn up! Refreshments provided.
Sat 26 May 10.30am – 3pm  
**Discover the Derwent Lead Mines**  
Durham County Council  
Explore the remains of the lead mines and smelt mills of the upper Derwent Valley and find out about the area’s geology as you go.  
**Start** Blanchland village car park  
**Distance/duration/grade** 6.5 miles (11 km)/4.5hrs/Moderate  
**Cost** £2.50 per walker (no concessions), under 5s free, family ticket for £7.50 (2 adults and up to 3 children under 12). Pay on the day.  
**Age** Under 8s must be accompanied by an adult  
**Note** No need to book – just turn up!

Sat 26 May 2pm – 4pm  
**Rocky Story Walk**  
Harehope Quarry Project  
Come along and be part of this rocky story walk in Harehope Quarry and the surrounding area, with Jeremy Warr.  
**Venue** Harehope Quarry, nr Frosterley  
**Distance/duration/grade** 3 miles (4.5 km)/3hrs/Easy  
**Cost** £2 per child (family £4.50). Pay on the day  
**Age** Under 8s must be accompanied by an adult  
**Note** No need to book – just turn up!

Sun 27 May 10.30am – 4.30pm  
**Geology of Smallcleugh Flats**  
North Pennines AONB Partnership  
A guided introduction to the mineralisation and structure of the Smallcleugh Flats.  
**Venue** Nenthead Mines Heritage Centre [NY781 426]  
**Distance/duration/grade** 1.5 miles (2.5km)/6hrs/Moderate  
**Cost** £12 – includes insurance and one year’s membership of NPHT. Pay in advance  
**Inclusions** Includes crawling and scrambling through small tunnels and walking through water up to 70cm deep. Bring wellingtons, warm clothing, waterproofs and a small pack for lunch. Lamps and helmets provided.

Sun 27 May 11am – 4pm  
**Burtreeford and Back: A Geological Exploration**  
Durham County Council  
Ascend to 300 metres with John Burgess and discover the geology around Sedling Rake Fell and Upper Weardale, including the famous Burtreeford Disturbance.  
**Start** St John’s Chapel Town Hall  
**Distance/duration/grade** 6.5 miles (10.3km)/5hrs/Easy  
**Cost** £2.50 per walker (no concessions), under 5s free, family ticket for £7.50 (2 adults and up to 3 children under 12). Pay on the day.

Mon 28 May 9.30am – 5pm  
**Three Waterfalls Walk**  
North Pennines AONB Partnership  
A linear walk along the Pennine Way, past the spectacular waterfalls of Cauldron Snout, High Force and Low Force. Find out how the Whin Sill formed and discover the area’s unique habitats and mining heritage. Includes minibus transport from Bowlees to Cow Green.  
**Start** Bowlees Visitor Centre [NY770 272]  
**Distance/duration/grade** 9 miles (14km)/7hrs (inc. travel)/Hard  
**Cost** £4 (inc. travel). Pay in advance  
**Inclusions** Full hill walking kit required. There is a steep, scrambly descent at Cauldron Snout.

Mon 29 May 10am – 12noon  
**Rock and Fossil Fun**  
East Cumbria Countryside Project/Talkin Tarn Country Park  
Make plaster casts of fossils and rocks. Good messy fun!  
**Venue** Talkin Tarn Country Park (Education Hut), nr Brampton  
**Distance/duration/grade** 6.5 miles (10.3km)/5hrs/Moderate  
**Cost** £2 per child (family £4.50). Pay on the day  
**Age** Children must be accompanied by an adult throughout event  
**Note** No need to book – just turn up!  
**Inclusions** Refreshments available. Dress to get messy!

Mon 29 May 1.30am – 3.30pm  
**Living Landscapes Trail**  
Harehope Quarry Project  
Discover how people made a living from the landscape in Weardale by following the orienteering trail around Harehope Quarry.  
**Venue** Harehope Quarry, nr Frosterley  
**Distance/duration/grade** 9 miles (14km)/2hrs/Easy  
**Cost** £2 per child (family £4.50). Pay on the day  
**Age** Under 8s must be accompanied by an adult  
**Note** No need to book – just turn up!  
**Inclusions** Refreshments available. No need to book – just turn up!

Tues 29 May 10.30am – 4.30pm  
**Geology of the Upper Nent Valley**  
North Pennines AONB Partnership  
Guided tour exploring the geology, mineral deposits and industrial archaeology of the Upper Nent Valley.  
**Start** Nenthead Mines Heritage Centre [NY781 426]  
**Distance/duration/grade** 2.5 miles (4km)/2hrs/Moderate  
**Cost** Normal Nenthead Mines charges apply  
**Age** 11 years +

**Inclusions** Some sections of rough walking along boulder-strewn river beds.

Tues 29 May 2.30pm – 3.30pm  
**Hot Water and Crystals**  
Brian Young - Local Geologist/Killhope Lead Mining Museum  
Using pictures and Killhope’s spectacular collections, geologist Brian Young will introduce some of the beautiful minerals of the North Pennines, including several almost unknown anywhere else on Earth. Find out how hot water produced the crystals that make this area world famous.  
**Venue** Killhope, the North of England Lead Mining Museum [NY826 430]  
**Venue** Bowlees Visitor Centre  
**Distance/duration/grade** 0.5 mile (1km)/45 min/Easy  
**Cost** Normal High Force charges apply (car park and entry to falls)  
**Age** 11 years +

**Inclusions** No need to book – just turn up!

Wed 30 May 1pm, then every 30 min, last walk 4pm  
**Drop in to High Force!**  
North Pennines AONB Partnership  
Guided walks every 30 minutes to High Force to look at how the Whin Sill formed from molten rock and gave rise to this spectacular waterfall.  
**Start** High Force, by entry kiosk  
**Venue** Bowlees Visitor Centre  
**Distance/duration/grade** 2.5 miles (4km)/2hrs/Easy  
**Cost** FREE  
**Age** Under 8s must be accompanied by an adult  

**Inclusions** No need to book – just turn up!

Thur 31 May 2pm – 4pm  
**Fossil Foray**  
Harehope Quarry Project  
Come and discover the rocks and fossils of Harehope Quarry. Make Plaster of Paris fossils and dig for fossils in our new ‘Georium’!  
**Venue** Harehope Quarry, nr Frosterley  
**Distance/duration/grade** 1.5 miles (2.5 km)/1hr/Easy  
**Cost** £2 per person (family £4.50). Pay on the day  
**Age** Under 8s must be accompanied by an adult  

**Inclusions** Dress to get messy! Refreshments available. No need to book – just turn up!
June

Fri 1 June 10am – 3.30pm
Two Sides to Every Coin?
Mines, Minerals and the Environment
Dr Iain Boulton – Environmental Scientist
Join Dr Iain Boulton for an exploration of Nenthead and its mining heritage. Take part in a practical investigation of the environmental impact of mining in the North Pennines, and the effects of the minerals and their products on people and wildlife.

Venue
Nenthead Mines Heritage Centre
[NY781436]
Distance/duration/grade 4.5 miles
(7km)/Shrs/Moderate
Cost FREE
Age Adults (16 years+)

Sat 2 - Sun 3 June
Dry Stone Walling Workshop
East Cumbria Countryside Project/Talkin Tarn Country Park
Discover more about this traditional skill which contributes so much to the North Pennines landscape. Led by an expert waller you will learn the basics of walling in this practical hands-on workshop.

Venue
Talkin Tarn Country Park (Education Hut), nr Brampton
[NY544596]
Duration 5.5 hrs
Cost £5. Pay in advance
Age Adults (18 years+)

Involves walking a mile. Wear outdoor clothes, gloves and strong boots. Lunch can be taken at Talkin Tarn Tearooms

Fri 1 June 10am – 3.30pm
Thur 31 May
2pm – 5pm
Explore Allen Banks
Brian Young – Local Geologist
Join geologist Brian Young to explore the long history of the National Trust’s remarkable canyon-like valley in the heart of Tyne Dale. See evidence of colliding continents, huge ancient rivers of sand and the effects of torrential meltwaters from the last Ice Age.

Start
Allen Banks car park [NY797640]
Distance/duration/grade 3 miles
(5km)/Shrs/Easy
Cost FREE
Age 11 years+

Fri 1 June 10am – 3.30pm

Sat 2 - Sun 3 June
YHA Dufton – Geology and Archaeology Weekend
YHA Dufton/Yorkshire Geological Society
Spend a weekend discovering the area’s geology, mine heritage and archaeology. Local geologist Trevor Morse will lead walks from the Youth Hostel and there will be fun events for children. Pick from a menu of events or stay the whole weekend!
Venue
YHA Dufton [NY668251]
Cost Sat night accom. £16.50 (£13.50 for students; £12 for under 18s). For individual event costs and detailed programme contact Dufton Youth Hostel.
Age 7 years+

Contact YHA Dufton to book on 0870 7705800 (dufton@yha.org.uk)

Meals not included but are available at the hostel. Bring waterproofs, walking boots and head torch. Reasonable level of fitness required

Sat 2 - Sun 3 June
Underground Photography Weekend Course
Roger Morris – Local Historian
Join a walk in and around Nenthead and find out about the Holden family, who made their mark on the North Pennines and beyond. Enjoy a stroll back to the 1800s with time for a cup of tea at the end of the walk.

Venue
Nenthead Mines Heritage Centre [NY781436]
Distance/duration/grade 3 miles
(6.5km)/Shrs/Moderate
Cost FREE
Age 11 years+

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Distance/duration/grade 3 miles
(6.5km)/Shrs/Moderate
Cost FREE
Age 11 years+

No need to book – just turn up!

Fri 1 June 10am – 3.30pm

Sat 2 - Sun 3 June
Come SparBoxing!
Killhope Lead Mining Museum
Geologist Brian Young, who has worked in and around Teesdale over the past 40 years, will take us on a whistle-stop tour of colliding continents, tropical seas and swamps, molten rock and mile-thick ice sheets, to unravel something of Teesdale’s fascinating story.

Venue
The Witham Hall, Horsemarket, Barnard Castle (01833 631107) [NZ53 168]
Cost £3.50 (£3 for members of the Witham Hall) Pay on the day
Age 10 years+

No need to book – just turn up!

Sun 3 June 7pm – 9pm
What Makes Teesdale Special?

Sun 3 June 2pm – 5pm
Mines and Miners of Allenheads
North Pennines AONB Partnership
A walk around and above Allenheads exploring the old lead mines and the lives of the mining families.

Start
Staff
[NY781436]
Distance/duration/grade 3 miles
(5km)/Shrs/Moderate
Cost FREE
Age 8 years+

No need to book – just turn up!
European Geoparks Week
The Northern Rocks Festival is part of European Geoparks Week, an annual summer celebration aimed at promoting the geology and landscapes of the 28 UNESCO European Geoparks. European Geoparks are regions with outstanding geological heritage and where this is being used to support sustainable development. European Geoparks are part of a wider network of 50 UNESCO Global Geoparks. For more details visit www.europeangeoparks.org and www.worldgeopark.org

North Pennines Visitor Guide 2007
This annual visitor guide is your comprehensive guide to the North Pennines AONB and UNESCO European and Global Geopark. It’s packed full of useful information to make your stay in this fantastic area an enjoyable one. Find out about what’s special about the area, outdoor recreation opportunities, local products and produce, browse through area guides and find out where to stay!

More Events and Activities!
As well as the Northern Rocks Festival we are also running an AONB Events Programme between April and October 2007. Discover the area’s stunning landscape, hay meadows, geology, birds and archaeology in the company of expert guides!

Find out more
• Visit www.northpennines.org.uk
• Call 01388 528801 (info@northpenninesaonb.org.uk) to request your copies of the Visitor Guide and AONB Events Programme

Event venues
1 Allen Banks NY797 640
2 Allenheads NY859 453
3 Appleby, Broad Street NY682 204
4 Alston Market Cross NY719 465
5 Blencarn NY637 314
6 Bowlee Visitor Centre NY907 282
7 Blanchland NY964 504
8 Cow Green Reservoir NY811 309
9 Dales Centre, Stanhope NY996 393
10 Deneholme, Allendale NY840 562
11 Dufton NY690 250
12 Garrigill NY745 416
13 Hanging Shaw NY867 298
14 Harehope Quarry NZ038 365
15 High Force NY885 286
16 Killhope Lead Mining Museum NY826 430
17 Knock (NNR Entrance) NY696 296
18 Middleton-in-Teesdale NY948 254
19 Nenthead Mines Heritage Centre NY781 436
20 Ninebanks Youth Hostel NY771 514
21 Rookhope NY938 429
22 St. John’s Chapel Town Hall NY885 379
23 Talkin Tarn Country Park NY544 590
24 The Witham Hall, Barnard Castle NZ053 168