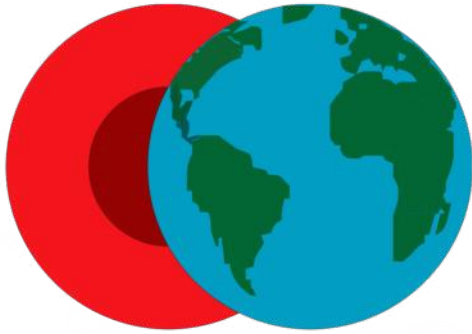


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Earth Science Teachers' Association

www.esta-uk.net

Registered Charity No. 1005331

Newsletter Editor: Maggie Williams

ESTA COUNCIL 2013

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**Welcome to ESTA News 2013**

This first issue of ESTA News for 2013 includes images taken by the Editor during a recent field excursion to Pembrokeshire. The Pembrokeshire Coast National Park has an amazing variety of rock types and landforms. This geodiversity was one of the deciding factors leading to the designation of the area as a National Park in 1952.

Photographs of the coastal scenery on the Marloes Peninsula



Do send photographs for the next newsletter to the Editor at hiatus@liv.ac.uk

What's new in the field?**Namibia: Fascination of Geology: A Travel Handbook**

Edition 5 was written by Nicole Grünert and published in January 2013.

(ISBN: 9783933117137) Price: £28.50.

South of Scotland (4th edition) Regional Geology Guide

Published by the British Geological Survey (BGS).

(ISBN: 9780852726945) Price: £18.00.

Sark Rocks

By F. Belfield and published in 2012. (ISBN: 978095673943) Price: £9.00.

Rocks and Landscape of Penistone Hill, Haworth

By Alison Tymon and Steven Wood and published in 2012.

(ISBN: 9780957434219) Price: £2.00.

Rock Trails Scottish Highlands: A hillwalker's guide to the geology and scenery

This guide was published in 2012 and was written by Paul Gannon. (ISBN: 9781906095383) Price: £14.95.

The Big Lakes of Lakeland

Published by Rigg Side, December 2012 and written by Alan Smith. This is Number 5 in "The Landscapes of Cumbria" series. (ISBN: 9780954467944) Price: £6.99.

This Shrinking Land: Climate Change and Britain's Coasts

Written by Robert Duck, ISBN: 9781845861186) Price: £20.00.

Geology of the Dudley district: a brief explanation of the geological map sheet 167 Dudley

Written by CN Waters, DM Bridge, AJ Humpage, WJ Barclay, NJP Smith and published by the BGS in 2013.

(ISBN: 9780852727515) Price: £9.00.

Silurian Fossils of the Pentland Hills, Scotland

This includes photos of the fossils that can be found and location details. (ISBN: 9781405177153) Price: £17.00.

Useful websites

<http://www.snh.org.uk/pdfs/publications/geology/NWHRockRoute.pdf>

Find out about the amazing rocks and landscapes along the Rock Route in the North West Highlands Geopark.

http://www.devon.gov.uk/index/environmentplanning/natural_environment/geology/geology-guide.htm

This webpage contains guides to 13 different rock types found in Devon.

<http://www.onegeology.org/>

Each month this site features a different country's map. For May 2013 the country featured was: Czech Republic.

<http://www.geolsoc.org.uk/Policy-and-Media/Consultations/2013-Responses/National-Curriculum-Review>

National Curriculum Review, 2011-2013: at this site find out about the Geological Society's involvement to date.

<http://www.southampton.ac.uk/~imw/Torquay.htm>

This updated site covers the geology of Torquay.

<https://play.google.com/store/apps/details?id=org.bgs>

BGS's iGeology app v4.0 for Android is now available.

<http://warmingworld.newscientistapps.com/>

Your warming world - an interactive map.

<http://www.bbc.co.uk/science/0/21938018>

Four ways to be killed by a volcano.

<http://phys.org/news/2013-04-redoubt-volcanic-eruption.html>

Volcanic eruption forecasting improved.

<http://phys.org/news/2013-05-tsunami-events.html>

Detecting tsunami events before they occur.

<http://www.guardian.co.uk/science/grrlscientist/2013/mar/22/1>

Element of the week: radon.

<http://www.bgs.ac.uk/data/historicalmaps/home.html>

Historical geological maps on line.

<http://www.bbc.co.uk/news/uk-england-dorset-22355538>

'Massive' cliff fall near Durdle Door.

<http://www.bbc.co.uk/news/magazine-22382503>

The great dinosaur stampede that never was?

<http://www.tes.co.uk/article.aspx?storycode=6328625>

The importance of geology.

<http://phys.org/news/2013-04-ancient-earth-crust-deep-mantle.html>

Ancient Earth crust stored in deep mantle.

<http://www.bbc.co.uk/news/science-environment-22398684>

Sichuan 2008: A disaster on an immense scale.

<http://bcs.wiley.com/he->

bcs/Books?action=mininav&bcsId=6048&itemId=1444330624&assetId=226542&resourceId=22181&newwindow=true

Part of the companion site for *Geological Field Techniques* by Angela Coe. This section gives a list of useful websites.

<http://phys.org/news/2013-05-geologic-earth-tectonic-peaked-billion.html>

Geologic study suggests Earth's tectonic activity peaked 1.1 billion years ago.

<http://phys.org/news/2013-05-landslides-lava-olympus-mons-mars.html>

Landslides and lava flows at Olympus Mons on Mars

<http://phys.org/news/2013-05-scientists-uncover-relationship-lavas-erupting.html>

Relationship between lavas erupting on sea floor and deep-carbon cycle?

<http://www.newscientist.com/article/dn23409-can-big-quakes-trigger-others-far-away.html>

Can big quakes trigger others far away?

<http://www.guardian.co.uk/environment/gallery/2013/apr/18/satellite-eye-on-earth-in-pictures>

Satellite eye on Earth: March 2013.

<http://phys.org/news/2013-04-salt-chalk-cliffs-collapse.html>

This report explains how salt causes chalk cliffs to collapse.



Fieldwork in the rain at Amroth



Near Pen Anglas - unexpected visitors to the field class!



2013 GSL Competitions Schools Geology Challenge

Congratulations to the winning school:
Wells Cathedral School.

Early Career Award

Congratulations to the joint winners:
Rosalind Pedder (hydrogeologist)
Owen Weller (Oxford PhD student).
The ESTA Chairman set the quiz questions
and was one of the competition judges.

Diary Dates 2013

Until 30th August

GeoFest 2013, Abberley & Malvern Hills Geopark

Contact:

www.bgs.ac.uk/news/DIARY/GeoFestProgramme2013.pdf

1st - 7th July

Royal Society Summer Science Exhibition

6-9 Carlton House Terrace, London SW1Y 5AG

Contact: <http://sse.royalsociety.org/2013/>

3rd July

Shell London Lecture: New Discoveries of Life at Deep-Sea Hydrothermal Vents

The Geological Society,

Burlington House, Piccadilly, London, W1J 0BG

Contact: www.geolsoc.org.uk/New-discoveries-of-life

7th - 8th July

Newcastle Rock Gem 'n' Bead Show, Newcastle Racecourse

Contact: www.rockngem.co.uk

12th July

Earthquakes in Action

Contact: i.ryder@liv.ac.uk

14th - 15th July

Farnham Maltings Rock Gem 'n' Bead Show, Farnham Maltings

Contact: www.rockngem.co.uk

25th - 28th July

Geoscience Education Academy 2013

The Geological Society, Burlington House, London, W1J 0BG

Contact: www.geolsoc.org.uk/gea13

4th - 5th August

Kempton Park Rock 'n' Gem Show, Kempton Racecourse

Contact: www.rockngem.co.uk

11th - 12th August

Rock 'n' Gem Show, Royal Welsh Showground, Builth Wells

Contact: www.rockngem.co.uk

15th August

Fossil Collecting, Somerset Earth Science Centre

Contact: www.rockwatch.org.uk/events_main.html

8th - 9th September

Newton Abbot Rock 'n' Gem Show, Newton Abbot Racecourse

Contact: www.rockngem.co.uk

11th September

Shell London Lecture: Dwarfism in Animals on Islands

The Geological Society,

Burlington House, Piccadilly, London, W1J 0BG

Contact: www.geolsoc.org.uk/Dwarfism-in-Animals-on-Islands

14th - 15th September

Open day at Snailbeach Mine, Shropshire

Contact: www.shropshiremines.org.uk/snailbeach/sbheri.htm

21st - 22nd September

Newark Rock Gem 'n' Bead September Show

Newark Showground, Newark, Notts.

Contact: www.rockngem.co.uk

5th October - 6th October

York Rock Gem 'n' Bead Show, York Racecourse

Contact: www.rockngem.co.uk

7th - 11th October

Earth Science Week

9th October

Shell London Lecture: The Mars Science Laboratory Mission:

The Curiosity Rover's Exploration of Gale Crater

The Geological Society,

Burlington House, Piccadilly, London, W1J 0BG

Contact: <http://www.geolsoc.org.uk/events>

14th - 16th November

Environmental Science Competition Final

The Skills Show at the LG Arena (NEC), Birmingham.

Contact: ianpaulcurtis@btinternet.com

Conferences during 2013 and 2014

27th - 28th June, 2013 ASE Summer Celebration Conference, University of Hertfordshire

For further information contact: www.ase.org.uk/conferences/summer-celebration/

27th - 29th September, 2013 ESTA Conference: Communicating Geoscience, Plymouth University

8th - 11th January, 2014 ASE Conference, The University of Birmingham

For further information contact: www.ase.org.uk/conferences/annual-conference/

14th - 16th April, 2014 Geographical Association Conference: "Crossing Boundaries", University of Surrey

For further information contact: www.geography.org.uk/

26th - 28th September, 2014 ESTA Conference, Open University, Milton Keynes

For further information about ESTA Conferences contact: linmarshall@btinternet.com



Photographs of the folded layers of Carboniferous rocks at West Angle Bay. Most of these folds are gently plunging antiforms and synforms. Many of the coves in this area are old quarry workings.



15% Discount for members

Manson Publishing is delighted to offer members of ESTA a 15% discount (plus free UK p&p) on their Earth & Environmental Science books during 2013. To claim your discount, please enter promotional code 'ESTA15' when purchasing books online at www.mansonpublishing.com or sending orders to: NBN International, Airport Business Centre, 10 Thornbury Road, Plymouth PL6 7PP, T: 01752 202 301, F: 01752 202333, Email: orders@nbninternational.com
For more information or to request an inspection copy, please contact Natalie Wills, T: 07957 198967, Email: natalie@mansonpublishing.com



ESTA is looking for old photographs

Peter Kennett is writing the history of ATG/ESTA, from 1967 (when he became a founder member) to the present day. Most of his early photos are of rocks and not of people! Can anyone help by looking back through the albums and seeing if any relevant photos come to light? If so, please can you scan them and email to Peter, with a note about who they show, and if permission to use them, with due acknowledgement, can be assumed. Email: peter.kennett@tiscali.co.uk

ESTA is also looking for volunteers!

Can you spare a couple of hours to look after the ESTA stand at one of the following conferences?

ESTA Conference, 2013 at Plymouth University on 27th- 29th September

ASE Conference, 2014 at The University of Birmingham on 8th - 11th January.

The Geographical Association Conference, 2014 at University of Surrey on 14th-16th April.

If you live near one of these venues and can help, please email: webmaster@esta-uk.net with the subject **BOARDS**.

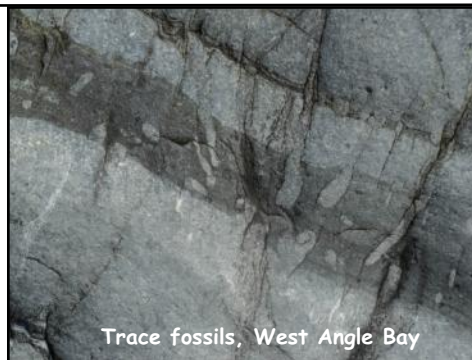
What's included with Newsletter 5.1?

If you are thinking of doing fieldwork a little further away than Pembrokeshire, this edition of ESTA News includes a flyer about various **Geology Tours to the Indian Himalayas** organised by Indus Tours.

ESTA News 5.1 also includes information about this year's **ESTA Course and Conference**, which will be hosted by Plymouth University on 27th - 29th September. This meeting, sponsored by the Petroleum Exploration Society of Great Britain (PESGB), promises to be an excellent event, providing opportunities to meet enthusiasts from Plymouth University, the National Marine Aquarium, Plymouth City Museum, English Riviera Geopark and the Jurassic coast.



Lung fish burrow, Freshwater West



Trace fossils, West Angle Bay



Tension gashes, Marloes

Quotes of the day

The Shell Cottage which featured in 'Harry Potter and the Deathly Hallows' Parts 1 and 2 was built and filmed on the Park's Freshwater West beach (it is no longer there!)

There are more than 40 Easy Access walks on the Path, which are either surfaced or unobstructed and suitable for wheelchairs and pushchairs.

Grassholm Island has one of the world's largest gannet colonies.

The Milford Haven Waterway is the second largest natural harbour in the World (after Port Philip, in Australia).

Find out more about the Pembrokeshire coast at:
www.pembrokeshirecoast.org.uk/default.asp?PID=8

The Pembrokeshire Coast is the only National Park that is mainly coastal.

The Coast Path attracts around one million user days annually and is one of the county's most important economic assets.

Battle scenes for the Ridley Scott film 'Robin Hood' were filmed at Freshwater West.

Marloes Sands, on the west coast of the National Park, was the location for battle scenes in 'Snow White and the Huntsman'.

The Park covers 602 square kilometres.

The coastline is 420km long.

ESTA NEWS is published biannually.
The next copy deadline is 15th November 2013.