

ESTA COUNCIL 2011

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Season's Greetings

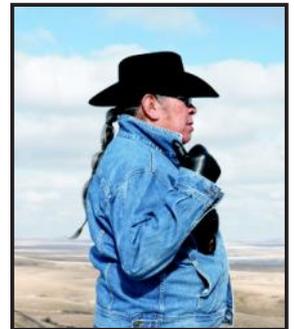
ESTA News aims to keep you up to date with ESTA's activities and provide details of events, training courses and conferences and information about new web resources and recently published field guides. Our last issue of ESTA News for 2011 includes photographs taken in British Columbia and Alberta during the winter of 2011. Places shown in the photographs include Fernie, Turtle Mountain, Frank Slide, Lake Kocanusa and Head Smashed-in Buffalo Jump.

Photographs for future newsletters should be sent to the Editor: hiatus@liv.ac.uk



Head-Smashed-in Buffalo Jump, foothills of Rocky Mountains, Alberta.

This UNESCO World Heritage Site is also the home of a museum of Blackfoot culture. The jump, used for 5,500 years by the indigenous people to kill buffalo by driving them off a 11m high cliff, was in use 6,000 years ago. Bone deposits below the cliff are 12m deep.



Conrad Little Feather: teacher at the museum of Blackfoot culture.

What's new in the field



Fernie Ski Patrol

Folds, Faults and Fossils - Exploring Geology in Pembrokeshire by John Downes. Excellent field guide to the Pembrokeshire coastline. Published in 2011 (ISBN 9781845241728)

Price: £8.50.

The Jurassic Coast: An Aerial Journey through Time by Robert Westwood. A book of aerial photographs illustrating the geology of the World Heritage Site. (ISBN: 9781907701023)

Price: £9.95.

Between Rocks and Hard Places: Discovering Ireland's Northern Landscapes by Paul Lyle. This book, published in 2010, includes high quality photographs. (ISBN 9780337095870)

Price £16.99.

Geology of south Dorset and south east Devon and its World Heritage Coast (A Special Memoir) by MA Woods. This 2011 BGS publication describes the geology and structure of the 'Jurassic Coast'. (ISBN:9780852726549) Price: £24.

Argyll and the Islands: A Landscape Fashioned by Geology. Published by Scottish Natural Heritage in 2011. (ISBN 97818539760870) Price £7.95.

Birth of Ben Nevis & Lochaber and the story behind Lochaber's landscape by Noel Williams. Published in 2010 by Lochaber Geopark, this 46 page book with colour photographs on each page is a useful guide to the geology of the Lochaber area. (ISBN 9780956536907) Price: £4.95.

Fossils from the Lower Lias of the Dorset Coast by AR Lord and PG Davis. This 2010 field guide is the Palaeontological Association Field Guides to Fossils No. 13. (ISBN 9781444337747) Price £18.

Fossils of the Whitby Coast: a Photographic Guide by Dean R. Lomax. Published in 2011, this guide includes 200 photographs of the fossils of the Whitby coast. ISBN 9780956779502) £14.95.

Sedimentary Rocks in the Field: a Practical Guide by Maurice E Tucker. This 4th edition, published in 2011, is in full colour and provides a useful guide to support fieldwork. (ISBN 9780470689165) Price £22.50.

Congratulations

To Peter Kennett

On 8th June, 2011 Peter received the R. H. Worth Prize from the Geological Society of London. This prize is awarded in recognition of meritorious geological research carried out by amateur geologists, or for the encouragement of geological research by amateurs.

To BGS

At the ESRI International User Conference in July 2011, BGS's "iGeology" app was voted best Community Favourite Mobile App.

Learn more about iGeology at: <http://www.bgs.ac.uk/iGeology/newsAug11.html?src=sfb>

Do you know?

GIFT Workshops

Grants are available to cover the travel & living expenses for up to 5 UK teachers to attend the GIFT workshops of the European Geosciences Union in Vienna in 2012. For more information contact Carlo Laj at: Carlo.Laj@lsce.ipsl.fr or look at the web page at: <http://www.egu.eu/media-outreach/gift/gift/home.html>

ESTA Secondary Workshop

The next Secondary Workshop will be held on Saturday 5th May in the Science Learning Centre at Keele. If you would like more information about this event, please contact Chris King at: chris@cjhking.plus.com



To your Newsletter Editor
(who is still skiing!)



Display board showing geology of Turtle Mountain

Frank is a coal-mining town in the Crowsnest Pass in Alberta. On April 29, 1903, 30 million cubic metres of limestone slid from the east face of Turtle Mountain. The main cause of the slide was the mountain's unstable geological structure.



The Frank Slide

Useful websites

<http://www.bgs.ac.uk/citizenScience/geoexposures.html>

This is a website to enable recording of temporary geological exposures and to make the information available to all.

<http://supersites.earthobservations.org/sendai.php>

GEO's Tohoku-oki Event Supersite Website.

<http://www.polartrec.com>

Find out about collaboration between teachers and researchers.

<http://www.bgs.ac.uk/discoveringGeology/hazards/home.html>

For information about various geological hazards.

<http://scottishgeology.com/>

A site which is the "permanent gateway to Scottish geology on the web".

<http://www.bgs.ac.uk/discoveringGeology/hazards/home.html>

For excellent information about various geological hazards.

<http://www.bgs.ac.uk/discoveringGeology/climateChange/CCS/home.html>

On this site there is an introduction to carbon capture and storage.

<http://www.bgs.ac.uk/discoveringGeology/time/fossilfocus/home.html>

A useful site about fossils.

<http://transitofvenus.nl/wp/getting-involved/educational-resources/>

For information about the next Transit of Venus Project.

<http://cavingnews.com/20110508-explorers-enter-volcanos-magma-chamber-for-first-time>

A site exploring the inside of an Icelandic volcano.

<http://news.bbc.co.uk/1/hi/sci/tech/4560835.stm>

This site explains how BGS is using the latest three-dimensional technology to re-draw its geology maps.

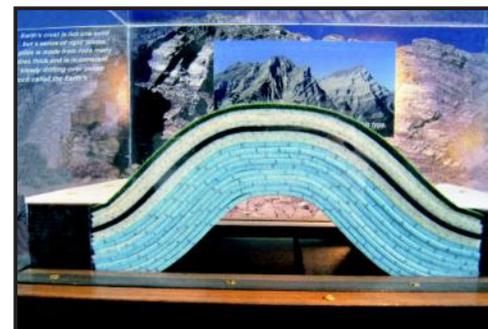
E-magazines

NERC Planet Earth online is available as an E-magazine or pdf from this site: <http://planetearth.nerc.ac.uk/>

SCINEWS provides teachers with short (15 minutes) pre-packaged lessons on a current event (such as an oil spill or earthquake). To subscribe send your name, affiliation, and email address to: emailSCINEWS@asu.edu

BGS Earthwise magazines may be downloaded from:

<http://www.bgs.ac.uk/discoveringGeology/newsAndEvents/earthwise/downloadSearch.cfc?method=viewIssues>



Make your own fold mountain: interactive display in the Frank Slide Visitor Centre



Elk River

Diary dates 2012

4th-7th January

ASE Annual Conference: achieving excellence in challenging times.

Liverpool University

Contact: www.ase.org.uk/

11th January

Shropshire Geological Society Lecture:

Impacts of the Volcanic Eruption in Iceland 2010

Contact: info@shropshiregeology.org.uk

18th January

Shell London Lecture: Earthquakes and tsunamis in the modern world

The Geological Society,

Burlington House, Piccadilly, London, W1J 0BG

Contact: www.geolsoc.org.uk/gsl/events/shellondonlectures12

21st-22nd January

The Hop Farm RocknGem Show,

Paddock Wood, Kent

Contact: www.rockngem.co.uk

8th February

Shropshire Geological Society Lecture:

My House fell in a hole: soluble rock geohazards - and the inspiration for Alice in Wonderland

Contact: info@shropshiregeology.org.uk

11th-12th February

Newton Abbott RocknGem Show,

Contact: www.rockngem.co.uk

15th February

Shell London Lecture: Rocks and climate change:

How we can stop pulling the carbon trigger

The Geological Society,

Burlington House, Piccadilly, London, W1J 0BG

Contact: www.geolsoc.org.uk/gsl/events/shellondonlectures12

18th February

Herdman Symposium: Geoscience Frontiers 3

Earth Sciences, School of Environmental Sciences

Contact: herdman@liverpool.ac.uk

18th February

South Wales Geologists' Association lecture:

Wine, Whisky and Beer: The Role of Geology

Earth Science Department, Cardiff University

Contact: swales.rg@geolsoc.org.uk

10th-11th March

Kempton Park RocknGem Show,

Contact: www.rockngem.co.uk

28th March

Shell London Lecture: Life at the Edge: Sinking deltas

The Geological Society,

Burlington House, Piccadilly, London, W1J 0BG

Contact: www.geolsoc.org.uk/gsl/events/shellondonlectures12

31th March- April 1st

34th International Mining Games

Camborne School of Mines (CSM) in Cornwall.

Contact: <http://www.cornish-mining.org.uk/fr/events/34th-international-mining-games-2012>

12th-14th April

Geographical Association Conference: Geographies of Difference

University of Manchester

Contact: www.geography.org.uk/

18th April

Shell London Lecture : Reconciling past and future worlds: geology and ground engineering

The Geological Society,

Burlington House, Piccadilly, London, W1J 0BG

Contact: www.geolsoc.org.uk/gsl/events/shellondonlectures12

9th May

Shell London Lecture: Unconventional Gas

The Geological Society,

Burlington House, Piccadilly, London, W1J 0BG

Contact: www.geolsoc.org.uk/gsl/events/shellondonlectures12

12th-13th May

Manchester RocknGem Show,

Contact: www.rockngem.co.uk

9th - 10th June

Kempton Park RocknGem Show,

Contact: www.rockngem.co.uk

16th-17th June

Somerset RocknGem Show, Shepton Mallet, Somerset

Contact: www.rockngem.co.uk

27th June

Shell London Lecture: Sustainability of groundwater in a changing world

The Geological Society,

Burlington House, Piccadilly, London, W1J 0BG

Contact: www.geolsoc.org.uk/gsl/events/shellondonlectures12

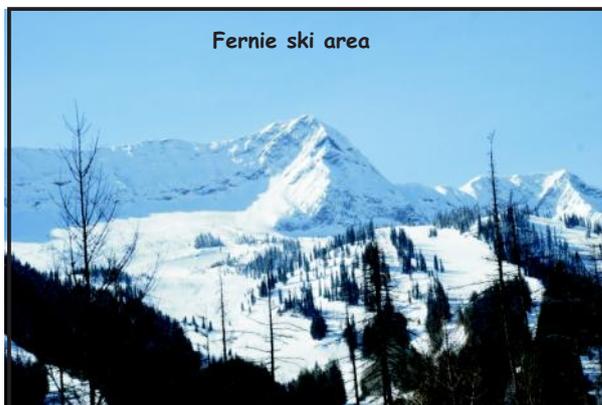
28th-30th September

ESTA Annual Conference: Digital tools for geology teaching

BGS, Keyworth

Contact: linmarshall@btinternet.com

More ESTA Conferences: Plymouth University (September 2013) and The Open University (September 2014)



Fernie was established in 1898. First industries based on coal mining and dense forests of fir, pine, spruce and cedar remain important, but tourism has increased in importance.



Inukshuk, Fernie. In the Inuit language inukshuk means "Someone was here" or "You are on the right path."



Gap year students entering into the spirit of 'skiing in the 1980s', Fernie

Wanted: A stamp-collecting ESTA member to put in touch with Ajit, who is a keen stamp collecting colleague in India and has an amazing collection of geologically related stamps from all over the World. If you're interested, please contact: Chris King at chris@cjhking.plus.com

Future ESTA Conferences - have your say
Results of questionnaire will be published in the next TES.
Thank you for your responses.

What's new on the ESTA website

If you haven't looked at the ESTA website recently it is worth a visit. The site has been updated so it has a new look - and you can now see first details of next year's ESTA Conference at BGS Keyworth. You'll also notice that the trial on-line forum for ESTA members has now finished - the site was closed because so few members used it. On the plus side you can now follow a Facebook link to ESTA and there is a new section called 'GEOTREX open'. This section shows a selection of some of the many items ESTA members are able to access on-line via GEOTREX. We hope that 'GEOTREX Open' may encourage more teachers to join our association. Remember you can still support the GEOTREX project by contributing your ideas, worksheets, presentations or other teaching resources.

Please email items to: contact@esta-uk.net with the subject GEOTREX.



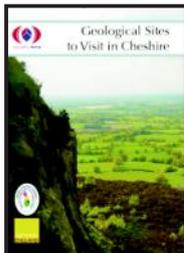
This limber pine, one of the most photographed trees in the world, is found near Crowsnest Pass. When the tree died in the late 1970s, its age was estimated as 600 to 750 years old.

Opportunities to work with ESTA Council

1. Jane Giffould, **Council Officer and Treasurer**, will complete her term of office in September 2012. If you are interested in finding out more about the work of the **Treasurer** &/or feel you would like to take on this job then please email: contact@esta-uk.net
2. Can you use Word? If so, you could be the new **ESTA Webmaster!** Our website is being operated by a 'Silver Surfer' who has redesigned the website so it is now much easier to do the webmaster's job. (The **Webmaster** isn't a member of Council, but works with Council members and is invited to attend their meetings) Details from: contact@esta-uk.net
3. ESTA Council may **Co-opt Members** to Council as circumstances arise. If you are interested in joining Council as a **Co-opted Member** then please email Maggie Williams at: hiatus@liv.ac.uk

Cheshire Sites

This excellent well-illustrated leaflet describes 12 sites in Cheshire which are geological Sites of Special Scientific Interest (SSSI). (Most of these sites are also Regionally Important Geodiversity Sites (RIGS). ESTA members who wish to receive a copy should contact: Dr Kathryn Riddington, Keeper of Natural History, Grosvenor Museum, 27 Grosvenor Street, Chester, CH1 2DD
Tel: 01244 402015 Email: kathryn.riddington@cheshirewestandchester.gov.uk



Note: This leaflet has the format of the Cumbria RIGS 'Geological Sites in Cumbria' leaflet: <http://cumbriarigs.co.uk/?Publications>.

The Geology Trusts

ESTA members living in Herefordshire & Worcestershire. Would you be interested in being an ESTA 'rep' to link with the Herefordshire & Worcestershire Earth Heritage Trust? If you think you would be interested in finding out more about the Geology Trusts Organisation or want to know about Local Geological Sites and/or Sites of Special Scientific Interest, the website: <http://www.thegeologytrusts.org/pub/> is a good source of information. Alternatively, contact Martin Whiteley: mjwhiteley@yahoo.co.uk

Note: The Geology Trusts Organisation can offer help and advice about finding suitable sites for A-Level fieldwork.

Blakeney Esker Explored is a set of teaching aids providing an insight into Ice Age Britain. <http://www.bgs.ac.uk/discoveringGeology/geologyOfBritain/BlakeneyEskerExplored/home.html>

20 geological and geomorphological sites in Shropshire are detailed on the following site: <http://www.shropshiregeology.org.uk/shropgeol/top20list.html>

Anglesey (Ynys Môn): a landscape carved by ice. The interactive **Anglesey i-Map** shows the landforms, sediments and summaries of how the main glacial features (striae, drumlins, meltwater channels) formed. <http://www.bgs.ac.uk/discoveringGeology/geologyOfBritain/anglesey/home.html?src=sfb>



Car number plate, Fernie ski area

Free back issues of the Journal of the Geological Society

100 back issues of the JGS quarterly journal in a discontinuous series starting in the late 60s and ending about 2009 will be pulped unless I can find them a good home. They are filed in a dozen wine boxes in my study in S. Yorkshire and are in good condition. If you fancy a good read, or have an urge to start an old fashioned reference library, contact: [rick.amsdale@btinternet.com](mailto:ricks.amsdale@btinternet.com)

Quotes of the day

The Cambrian explosion was the most remarkable and puzzling event in the history of life.
Stephen Jay Gould

Practically every environmental problem we have can be traced to our addiction to fossil fuels, primarily oil.
Dennis Weaver

I have seen so many eruptions in the last 20 years that I don't care if I die tomorrow
Maurice Krafft (on the day before he was killed by a pyroclastic flow)

Movie making is the slowest business on earth next to fossil manufacture.
Aaron Latham

The primary role of the geologist is to recognise the existence of phenomena before trying to explain them.
B.M. Keilhau

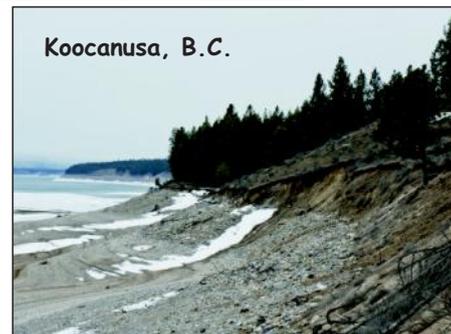
For a time I didn't want to answer any questions about Queen. I'd like to be viewed as something alive and relevant, not some fossil.
Brian May

I cannot promise to teach you all geology, I can only fire your imaginations.
Adam Sedgwick

It is clear our nation is reliant upon big foreign oil. More and more of our imports come from overseas.
George W. Bush

Geological time is not money
Mark Twain

Koocanusa, B.C.



This lake, formed when the Libby Dam was built across the Kootenay River, Montana in 1975, provides flood protection and H.E.P.

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