

ESTA COUNCIL 2012

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Season's Greetings

This last issue of ESTA News for 2012 includes photographs taken by the Editor on a recent visit to Ilulissat, West Greenland. The icefjord and the glacier at Ilulissat make up a world-class area of outstanding natural beauty and in 2004 the fjord was added to UNESCO's World Heritage list. For more information about this site visit:

<http://whc.unesco.org/en/list/1149>



View of Disko Bay from Ilulissat



Send photographs for the next newsletter to the Editor at: hiatus@liv.ac.uk

What's new in the field?

Health and safety warning sign

**Exploring the landscape of the National Forest**

This excellent map and booklet pack was published by the BGS in August 2012. (ISBN: 9780852726877) Price £6.95.

A Ramblers' Guide to Building Stones in Warwickshire

This helpful book by Hugh Jones was published in 2011 by Warwickshire Geological Conservation Group. (ISBN: 9780957123205) Price: £6.

(ISBN: 9781905267538) Price: £15.99.

Geology of the Dorset Coast: Geologists' Association Guide No. 22

A useful guide written by John C.W. Cope and published in 2012.

(ISBN: 9780900717611) Price: £17.

Basic Geological Mapping (5th Edition.)

Published by Wiley-Blackwell in 2011. (ISBN: 9780470686348) Price: £22.50

A Geological Excursion Guide to the North-west Highlands of Scotland

This book, edited by Kathryn M Goodenough & Maarten Krabendam was published in 2011. (ISBN: 9781905267538) Price: £15.99.

Geology and Coastal Erosion Resource Pack.

This free pack written by Frank Bennett (Ranger - Wirral's Coast) gives information about Wirral's coastline and geology. Request a digital copy by contacting :

Maggie Williams at: hiatus@liv.ac.uk or Frank Bennett at: frankbennett@wirral.gov.uk

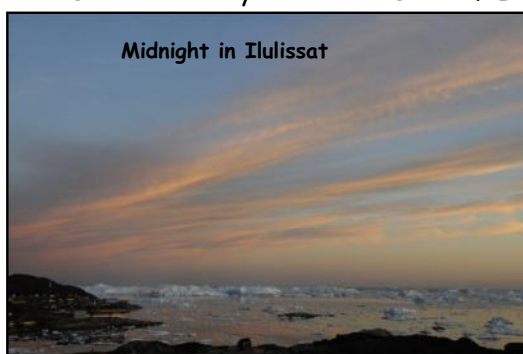
Green geology

This website has guides and information about geological sites that can be visited by "green" transport in the UK. www.greengeology.org.uk/#/geology-trails/453958211

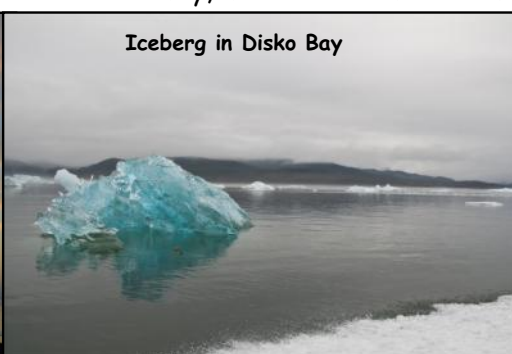
Earth Science-themed edition of ASE's School Science Review

ESTA members may be interested to know that the December 2012 edition of the Association for Science Education's *School Science Review* journal will be the first Earth-themed edition of SSR ever published. It will include 11 articles by authors, many of whom will be familiar to ESTA members, listed below. If you're not an ASE member, a member of your staff may be, and they should be able to let you see a copy of the journal in time for a good Christmas read!

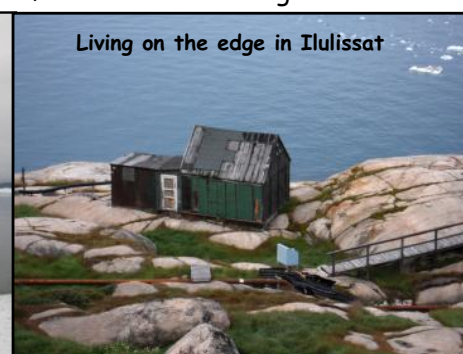
- Steve Davies: The 'Earth Physics' workshops offered by the Earth Science Education Unit
- Elizabeth Devon: Box Rock Circus; Earth science out of doors
- Alastair Fleming: The Evolution of the Atmosphere: the story and the evidence
- Maggie Williams - Why reinvent the wheel when Earth science resources are already available? :the GEOTREX and STEGO resource banks
- Peter Kennett: Using the internet to educate the world: Earthlearningidea
- Chris King & Annette Thomas: The impact of ESEU workshops - an evaluation
- Chris King: Common Earth Science Misconceptions in Science Teaching
- Pete Loader: Volcanoes, molten magma and a nice cup of tea
- Hazel Mather - Sub-Surf Rocks! - an A level resource for teachers, from the oil industry
- Alex Potter - Inspiring a generation through the Jurassic Coast World Heritage Site
- Duncan Hawley: The 'Real Deal' of Earth science: why, where and how to include fieldwork in teaching



Midnight in Ilulissat



Iceberg in Disko Bay



Living on the edge in Ilulissat

Useful websites

<http://www.bgs.ac.uk/mendips/home.htm>

This BGS site provides an interactive guide to the natural and man-made landscape of the Mendip Hills.

<http://www.geobus.org.uk/>

Use this link to find out more about the GeoBus project.

http://www.youtube.com/watch?v=yxFazy_vDhE

A fantastic tour of the ocean bottom is shown here.

www.futuremorph.org

The Science Council has re-launched the Future Morph website.

This site provides information about the range of careers open to young people via science and maths qualifications.

<http://www.shetlandamenity.org/other-resources>

Here there is information about Geopark Shetland and the geology, landscape, biodiversity and archaeology of Shetland. There are also some very useful resources for teachers at this site.

<http://climate.nasa.gov/ClimateTimeMachine/ClimateTimeMachine.cfm>

Here there is a very useful tool for visualising climate change.

<http://avonrigsoutcrop.blogspot.co.uk/2012/06/south-gloucestershire-geology-booklet.html>

At this site you can download a leaflet about the geology and landscape of South Gloucestershire and find out more about geological sites in the former County of Avon.

<http://www.bbc.co.uk/science/earth>

Find video clips, some stunning photographs and much information about the Earth here.

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

Find out what's new on the British Geological Survey's website.

<http://www.telegraph.co.uk/earth/earthpicturegalleries/9252119/Patterns-from-space-beautiful-satellite-images-of-river-deltas-around-the-world.html?frame=2213684>

Patterns from space: river deltas around the world. Some excellent images may be found at this site.

http://oceanexplorer.noaa.gov/explorations/12fire/media/12firestream_playlist.html#

The NOAA Pacific expedition is featured on this site.



Sledge dog summer in the Arctic Circle

Diary Dates 2012

December until 3rd March 2013

Veolia Environnement Wildlife Photographer of the Year exhibition 2012

Natural History Museum, London

Contact: www.nhm.ac.uk/

19th December

Shell London Lecture: Incoming learning to love the meteorite

The Geological Society, Burlington House.

Piccadilly, London, W1J 0BG

Contact: www.geolsoc.org.uk/

2nd - 5th January

ASE Conference: Constructing the future of science education; tackling 50 year challenges.

University of Reading

Contact: conferences@ase.org.uk

12th January

The Broadhurst Lectures: The Palaeontology of China

University of Manchester

Contact: cheiotherium@gmail.com

19th - 20th January

The Hop Farm Rock 'n' Gem Show, Kent

Contact: www.rockngem.co.uk

26th - 27th January

Chepstow Rock 'n' Gem Show, Chepstow Racecourse

Contact: www.rockngem.co.uk

10th February

Fossil Hunt to Weybourne

Contact: www.ukafh.co.uk

12th - 24th February

Darwin Festival in Shropshire, 2013

Contact: www.discoverdarwin.co.uk/darwin-festival/

16th February

Herdman Symposium: Geoscience Frontiers 4

Liverpool University

Contact: herdman@liverpool.ac.uk

16th - 17th February

York Rock Gem 'n' Bead Show,

York Racecourse

Contact: www.rockngem.co.uk

23rd February

Canterbury Fossil Roadshow

Beaney Art Museum and Library, Canterbury

Contact: www.thebeaney.co.uk

2nd - 3rd March

Dudley Rock Gem 'n' Bead Show, Cophthorne Hotel,

Dudley

Contact: www.rockngem.co.uk

9th - 10th March

Kempton Park Rock 'n' Gem Show, Kempton

Racecourse

Contact: www.rockngem.co.uk

12th March

Joint meeting Manchester Geological Association with Geographical Association:

Lecture: Now that the dust has settled... The

Impacts of Icelandic Volcanic Eruptions

Williamson Building, Oxford Road, Manchester

Contact: lectures@mangeolassoc.org.uk

15th - 24th March

National Science and Engineering Week: Invention and discovery.

Contact: www.britishtscienceassociation.org/national-science-engineering-week

23rd - 24th March

Brighton Rock Gem 'n' Bead Show, Brighton

Racecourse

Contact: www.rockngem.co.uk

ESTA Conferences in 2013 and 2014

27th-29th September 2013

ESTA Annual Course & Conference: Communicating Geoscience, Plymouth University

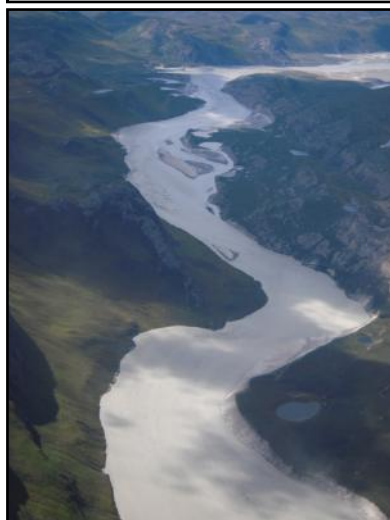
27th - 29th September 2014

ESTA Annual Course and Conference, Open University, Milton Keynes

For further information

please contact:

linmarshall@btinternet.com



Photographs of the views of Greenland taken on the flight to and from Ilulissat

The National Stone Centre needs you

For over 20 years the National Stone Centre near Wirksworth in Derbyshire has been developing six Carboniferous Limestone quarries, four lime kilns and over a hundred lead mine shafts on its 50 acre site. The centre would love to hear from anyone who can spare time to help out with: school/group visits, the collections or exhibitions or short-term projects such as clearing vegetation from rock exposures.

Visit the website to find out more: www.nationalstonecentre.org.uk

To volunteer contact Geoff Selby-Sly by email: geoffselbysly@hotmail.co.uk



Try working out the cross-cutting relationships in this photograph taken in West Greenland

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?

- * ASE Conference, 2013 at Reading University on 2nd-5th January.
- * The GA Conference, 2013 at the University of Derby on 4th-6th April.
- * ESTA Conference, 2013 at BGS, Keyworth on 27th- 29th September

If you can help, please email: webmaster@esta-uk.net with the subject **BOARDS**. (ESTA will pay volunteers their travel expenses)



Gneiss monolith in Ilulissat

Secondary Working Group, 2013

The next ESTA Secondary Workshop will be on Saturday 18th May, 2013 in the Science Learning Centre at Keele.

Items on the agenda are likely to include:

- using social media sites
- updating activities from archived version of *Teaching Geology and Teaching Earth Sciences*
- the potential of Earth-caching

ESTA will pay travelling expenses, provide lunch and tea/coffee and can even stretch to a few peoples' overnight expenses (in the Keele Management Centre) if they have to travel from afar. The day will start with coffee before 10.00 and end by 4.00. We hope to see you there.

Contact: chris@cjhking.plus.com

ESTA Website

Did you know that:

- you can follow ESTA on Facebook
- ESTA now has a Twitter account: @ESTA_UK



Herdman Symposium

Saturday 16th February, 2013 from 9.30 am to 5.00 pm, when there is a wine reception until 6.00 pm.

Guest speakers include: Dr Roger Benson (Oxford), Prof Cor Langereis (Utrecht) and Prof Paul Wignall (Leeds). Tickets: £10 for tea/coffee, buffet lunch and wine reception. (School students attend free by arrangement)

Contact: herdman@liverpool.ac.uk



Waiting for the catch, Ilulissat harbour



Inuit family on a day out in Sermermiut



Fishing in Disko Bay

Quotes of the day

A lot of people like snow. I find it to be an unnecessary freezing of water.

Carl Reiner

A year of snow, a year of plenty.

French Proverb

Getting an inch of snow is like winning 10 cents in the lottery.

Bill Watterson

Advice is like snow - the softer it falls, the longer it dwells upon, and the deeper it sinks, into the mind.

Samuel Taylor Coleridge

An actor is a sculptor who carves in snow.

Lawrence Barrett

A snowball in the face is surely the perfect beginning to a lasting friendship.

Marcus Zusack, 'The Book Thief'

Snow and adolescence are the only problems that disappear if you ignore them long enough.

Earl Wilson

Cement doesn't give as much as snow.

Shaun White

Snow provokes responses that reach right back to childhood.

Andy Goldsworthy

And finally - some of the many Inuit words for snow:

muruaneg = soft deep snow

nutaryuk = fresh snow

qanir = to snow

navcaq = forgotten snow

natquik = drifting snow

qengaruk = snow bank

tlapa = powder snow

tla = ordinary snow

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