

Conference Secretary

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The Ussher Society

Geoscience in south-west England

43rd Annual Conference

Newquay, 3rd - 6th January 2005

Second Circular

The Ussher Society is pleased to announce its **43rd Annual Conference** at the **Kilbirnie Hotel, Newquay, Cornwall**. This 4-day conference for earth/environmental scientists and engineers comprises **two days of presentations (Tuesday 4th & Wednesday 5th)**, incorporating a joint session with the South West Regional Group of the Geological Society, and **pre- and post-conference field trips** (Monday 3rd and Thursday 6th January).

A **pre-conference field trip** will take place on **Monday 3rd January**; Robin Shail (CSM) and Brian Leveridge (BGS) will take a tour of some interesting Variscan localities around the Newquay area – see programme below for details. After the fieldtrip, an **Icebreaker reception**, courtesy of **IGI Limited**, will be held in the bar at the Kilbirnie Hotel from **7-8pm**. Pre-registration for the conference will be possible during this period.

Tuesday 4th January will see the commencement of our oral and poster presentations (posters available for viewing during all scheduled breaks), beginning with a look at aspects of Geodiversity, fossils of west Dorset, and Variscan/Tertiary weathering. After coffee, the **Scott Simpson Lecture** will be presented by **Alex Halliday** on the topic of 'Developments in isotope geochemistry', followed by a review of Permian and Triassic chronological methods and results. The afternoon session will focus on aspects of Variscan geology, including gold mineralisation, structure and ore textures. Following an afternoon tea break, we take a huge step forwards in geological time to look at processes relating to Holocene and Quaternary processes.

The **Annual General Meeting** of the Ussher Society will be held in the evening, at **5.15pm**, to which Members are warmly invited. It is requested that items to be included on the agenda, or major items for discussion under Any Other Business, are **submitted to the Chair well in advance**. The AGM will be followed by an interlude for socialising, with background musical accompaniment, prior to the **Conference Dinner** being served at around **8pm**.

Wednesday 5th January begins with a focus on petroleum geoscience in the southwest, followed by a look at aspects of micro-palaeontology. The morning session concludes with two papers reviewing engineering aspects of Jurassic and Cretaceous age rocks in the east of the area.

The afternoon session is held in conjunction with the **South West Regional Group** of the Geological Society, based around the theme of '**Coastal Zone Engineering and Management**'. The session commences with a Keynote address from Prof. Reeve (University of Plymouth), and continues with a diverse and interesting range of presentations related to this topic, covering a geographical area from east Devon through to the Channel Islands.

On the morning of **Thursday 6th January**, those registered for the post-conference trip will set off to examine a range of localities representative of granite-related mineralization, 'cross-course' Pb-Zn veins and the Great Perran Iron Lode. Richard Scrivener (BGS), Simon Camm and Bruce Grant are the Scientific Directors for this trip; **booking is essential** – see below for details.

Provisional Programme

Monday 3rd January - Field excursion 1: An introduction to the geology of the Newquay area

Scientific directors: **Robin Shail, Brian Leveridge & Louise Hollick**

Administrative leaders and safety advisors: **Chris Cornford** or **Ran Kelly** of Hallsannery Field Centre

The field excursion will provide an overview of the geology of the Newquay area, including aspects of rift basin development and sedimentation (Lower Devonian), geological structures developed during Variscan convergence (Carboniferous), late- to post-Variscan structures, minor igneous intrusions (early Permian), a little mineralization and even some Quaternary sediments – something for everyone !

Meet in the National Trust Car Park at Holywell Bay (SW 767 586) for a 10.30am departure. Warm clothes, hat, gloves, full waterproofs and wellington boots are strongly recommended. Lunch will be taken at a public house. Beach, shore platform and steep flights of steps will be encountered. The itinerary is weather and tide dependent

18.00-19.00 Committee meeting at the Kilbirnie Hotel, Newquay

19.00 ICEBREAKER RECEPTION sponsored by **IGI Ltd** at the **Kilbirnie Hotel, Newquay**

Tuesday 4th January : Presentations of papers and posters

08.30 onwards Registration – Kilbirnie Hotel

09.10 – 09.20 **Chairman's Introduction**
Dr Brian Leveridge

09.20 – 09.45 Valuing geodiversity for conservation in Devon
Peter Scott, David Roche, Clive Nicholas, Robin Shail and Philip Denby

09.45 – 10.10 Geodiversity Audit for Cornwall and Isles of Scilly
Paul Wheeler

10.10 – 10.35 Distressed Somerset – Some aspects of Variscan/Tertiary weathering
Hugh Prudden

10.35 – 11.00 **Tea / Coffee** *Posters available for viewing*

11.00 – 12.00 SCOTT SIMPSON LECTURE
Developments in Isotope Geochemistry
Prof. Alex Halliday – Oxford University

12.00 – 12.25 The Production of Dioritic Magmas by Fluid Infiltrational Mixing in the Plutonic Igneous Complex at Sorel Point, Jersey, Channel Islands
S. Salmon

12.25 – 13.30 **Lunch** *Posters available for viewing*

13.30 – 13.55 A simple technique for revealing the texture of Cornubian ore deposits
J B Grant & C W E H Smith

13.55 – 14.20 Gold mineralisation in the Early Devonian passive margin of SW England
B E Leveridge & R C Scrivener

14.20 – 14.45 Large-scale southwards facing structures in the Looe Basin (Lower Devonian): evidence of basement controls upon Variscan passive margin inversion and post-convergence extension.
R.K. Shail & B.E. Leveridge *cont...*

- 14.45 – 15.10 Chronology of the Permian and Triassic of Devon: a review of methods and results
G Warrington
- 15.10 – 15.35 A review of the stratigraphy and ammonite faunas of the Charmouth Mudstone Formation (Lower Jurassic, mid Lower Sinemurian to basal Upper Pliensbachian) of the West Dorset coast, south-west England.
Kevin Page
- 15.35 – 15.55 ***Tea / Coffee*** ***Posters available for viewing***
- 15.55 – 16.20 Identifying phases of periglacial slope activity in Cornwall
Dr Jasper Knight
- 16.20 – 16.40 Soil evolution in the Holocene – a gardener’s view
C M Bristow
- 16.40 – 17.00 The forgotten spas and mineral springs of south-east Somerset
J D Mather and H C Prudden
- 17.15 – 18.30 Annual General Meeting of the Ussher Society**
- 18.30 – 20.00 Jazz music and pre-dinner drinks in the Ballroom
- 20.00** Ussher Society Conference Dinner – Kilbirnie Hotel, Newquay

Wednesday 5th January : Presentations of papers and posters

- 08.30 onwards** Registration – Kilbirnie Hotel
- 08.55 – 09.00 **Chairman’s Introduction**
Dr Brian Leveridge
- 09.00 – 09.25 Petroleum geochemistry of the Wessex Basin (Dorset, UK)
Paul Farrimond, Richard Paterson, Mustafa Erhuma & Andrew Hindle
- 09.25 – 09.50 Intelligent geochemical databases
Chris Cornford, Tony Gliddon & Chris Burgess
- 09.50 – 10.15 Geology and Geotechnical aspects of Devonport Dockyard, and implications for redevelopment and New build
Michael Whitworth
- 10.15 – 10.45 ***Tea / Coffee*** ***Posters available for viewing***
- 10.45 – 11.10 Foraminifera from Restronguet Creek
Olubunmi Olugbode, Malcolm B. Hart & Sheila Stubbles
- 11.10 – 11.35 The St Erth Formation: geometry of the deposit and micropalaeontology.
Malcolm B. Hart, Richard Messenger, Duncan Pirrie, Lesley Allen, Graeme K. Taylor & Ben Dashwood
- 11.35 – 12.00 Engineering stratigraphy of the Lower Lias of the Glastonbury District
Alan Cattell
- 12.00 – 12.25 Large-scale partial dissolution of the Chalk of the Devon coast and its engineering significance.
R W Gallois
- 12.25 – 13.30 ***Lunch*** ***Posters available for viewing***

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- 13.30 – 14.20** **Geological Society South West Keynote Address**
Modelling Coastal Morphology and its Evolution
Prof. D Reeve – University of Plymouth
- 14.20 – 14.45 Cliff stabilisation and management at Beer, East Devon
David Roche and David Allen
- 14.45 – 15.15 ***Tea / Coffee*** ***Posters available for viewing***
- 15.15 – 15.40 Erosion and failure of an apron of Devensian head on the north coast of Jersey,
Channel Islands: Techniques of investigation, results, and significance for future
development in an environmentally sensitive area.
J.T. Renouf, J.S. Sharp, S. P. Watson, & R.A.N. MacKean
- 15.40 – 16.05 Landslide and mass movement process and their distribution, in the Wellington
District
K. A. Freeborough, A. Gibson, M. Hall, C. Poulton G. Wildman, A. Forster
- 16.05 – 16.30 A basis for development of a quantitative risk assessment methodology for coastal
slopes in Cornwall
B M Westgate, J S Coggan & R J Pine

**Thursday 6th January - Field Excursion 2: Mineralisation of the Perranporth and St. Agnes
areas**

Scientific directors: **Richard Scrivener, Simon Camm, Bruce Grant**

Administrative leaders and safety advisors: **Chris Cornford** or **Ran Kelly** of Hallsannery Field Centre

The excursion will examine a number of localities representative of granite-related mineralization, 'cross-course' Pb-Zn veins and the Great Perran Iron Lode.

Departure will be from **the public car park at Holywell Bay**, where those attending should gather at **09.45** (the car park is close to the entrance to the Penhale Military Camp). Please bring hard hats and wear stout footwear. Lunch will be taken at an appropriate hostelry.

Please note that **registration for this excursion is essential** as we will be entering the Military Camp: those turning up on the day without registration will not be able to take part.

CONFERENCE BOOKING FORM
The Ussher Society Annual Conference – Kilbirnie Hotel, Newquay
3rd – 6th January 2005

Please complete and **return this form with payment to Conference Secretary:**
 Louise Hollick, British Geological Survey, Forde House, Park 5 Business Centre, Harrier Way, Sowton,
 Exeter, EX2 7HU.

DEADLINE FOR RECEIPT OF REGISTRATION: 21ST DECEMBER 2004

NAME:

ADDRESS:

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PHONE: E-MAIL:

I wish to register for the Conference as follows (please tick where appropriate):

'Ussher Society Member' delegate (AVAILABLE ONLY TO PAID-UP MEMBERS)

Both conference days (4th & 5th January) @ £22

Tuesday 4th January only @ £12 Wednesday 5th January only @ £12

Standard delegate

Both conference days (4th & 5th January) @ £30

Tuesday 4th January only @ £16 Wednesday 5th January only @ £16

Full-time Student delegate

Both conference days (4th & 5th January) @ £14

Tuesday 4th January only @ £8 Wednesday 5th January only @ £8

Note: All conference rates include tea/coffee and buffet lunches at the conference venue

Conference dinner - £14 for 3 courses and coffee, at the restaurant in the Kilbirnie Hotel

I wish to attend the conference dinner on Tuesday 4th January

I prefer a vegetarian meal

I intend to join the following field excursion(s)

Variscan Geology of Cornwall (R Shail and B E Leveridge) – Monday 3rd January

Cornish Mining (Richard C Scrivener) - Thursday 6th January

Field excursions must be pre-booked. Limited transport will be available and no refreshments are included. There is **NO** charge for attending either excursion, but **please refer to notes on programme** (above).

I enclose a cheque for £..... made payable to **L Hollick**

ACCOMMODATION INFORMATION

The Ussher Society Annual Conference – Kilbirnie Hotel, Newquay
4th - 6th January 2005

Please note that **it is your responsibility** to make arrangements for, and payment of, the accommodation that you require before, during and after the conference. You may also wish to arrange evening meals at the same time as booking accommodation (where applicable), **bearing in mind any booking you have made (above) to attend the Conference Dinner on Tuesday 4th January.**

Links to information about other accommodation options, and a hotel search-engine, may now be found on the **NEW** Ussher Society website: www.ussher.org.uk

Accommodation at the Kilbirnie Hotel, Newquay – CONFERENCE VENUE

The hotel has kindly negotiated **special rates for Ussher Society Delegates** – please mention the Ussher Society when contacting the hotel to make your reservation.

- ▶ Single room, or two persons sharing twin/double room (all en suite) - £34 per person per night B&B.
- ▶ Single occupancy of twin or double room - £35 per person per night B&B.

Contact: Kilbirnie Hotel,
Narrowcliff
Newquay
Cornwall, TR7 2RS
Tel: 01637 875155

E-mail: enquirykilbirnie@aol.com

Website: <http://www.kilbirniehotel.co.uk/>

Demand for rooms at the Kilbirnie is likely to be high, so please book early to avoid disappointment

The Kilbirnie Hotel offers a range of evening meals in the bar/restaurant; bookings for meals may be made at the same time as your accommodation reservation. Please bear in mind that you may have made a reservation for the **Conference Dinner** above, to be held on the evening of Tuesday 4th January.

Invernook Hotel

The hotel has kindly negotiated **special rates for Ussher Society Delegates** – please mention the Ussher Society when contacting the hotel to make your reservation.

- ▶ Rooms all at £22.50 per person per night B&B

Contact: Keith and Ros Hill
Invernook Hotel
8 Berry Road, Newquay
TR7 1AT

Tel: 01637 872436

E-mail: invernookhotel@btconnect.com

Minerva Hotel

The hotel has kindly negotiated **special rates for Ussher Society Delegates** – please mention the Ussher Society when contacting the hotel to make your reservation.

- ▶ Rooms all at £25 per person per night B&B

Contact: Jo, at Minerva Hotel,
The Crescent
Newquay, Cornwall
TR7 1DT

Tel: 01637 873439

E-mail: minervahotel@btconnect.com

MAP OF NEWQUAY

showing location of conference venue, and hotels listed above

1 Kilbirnie Hotel - Conference Venue

3 Minerva Hotel



2 Invernook Hotel

Map amended from www.multimap.co.uk