

Insurance

Everyone booking a place and paying a deposit is advised to take out holiday insurance. This can cover you against loss of money in the event of cancellation etc. Cover is often included with many credit cards.

Booking

Your booking will be confirmed upon receipt of either a deposit of £250.00 per person or the full payment and a completed booking form. The balance will be payable not later than June 30th 2012. The tour will run if there are 10 bookings by March 31st. 2012.

Your money...

Upon receipt, all monies paid for these courses are placed in a specific 'client trust account' where it cannot be drawn by us until after completion of the trip. This is in accordance with EU Directives and ensures that your money is safe in the unlikely event of corporate failure by Geo Supplies.

If you have any questions or queries after reading this brochure, please contact Chris Darmon.

Email:
downtoearth@geosupplies.co.uk



Down to Earth

"Earth science learning for all"

Geology Field Course to The Pembrokeshire Coast September 1-8 2012



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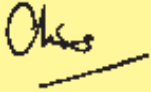
An introduction to the course...

I've been leading geological field parties around these islands for 40 years, yet it must be at least 20 since I was last down on the Pembrokeshire Coast. Indeed, you've been asking for a trip to this area for a long time and it just hasn't been possible for one reason or another! You can say that I've listened because here we are with a full week in which to enjoy this beautiful scenery and geology.

I'm always honest when I tell you that I don't know an area particularly well, but this has happened many times before and it comes with an added bonus - you get me at my most enthusiastic and I see what you are seeing often for the first time. Whilst I'm familiar with some parts of the Pembrokeshire Coast there are going to be some exciting new finds for me - so come and enjoy it all with me!

We've considered long and hard our field location and the hotel we've come up with looks like it offers the best location to allow us to access the whole coast and also offers just the right level of comfort and services for our group.

As this is our first visit to the area, we anticipate high levels of interest in this course - so book up early to avoid disappointment



Chris Darmon BSc
Course Organiser/Leader

The Geology

The oldest rocks of Pembrokeshire are a late Precambrian volcanic sequence that is intruded by a granophyre. These are followed by an extensive series of Cambrian sedimentary rocks, mainly turbidities but also including shallow water sandstones and conglomerates. Some of these rocks are fossiliferous containing the remains of trilobites. The overlying Ordovician rocks include a number of igneous types, including pillow lavas, volcanic ashes along with gabbro and dolerite intrusion. Some of the Ordovician shales contain numerous graptolites. The Silurian period is represented by further volcanics and sedimentary rocks, beautifully exposed in Marloes Bay. Later rocks, including Devonian and Carboniferous sediments are never far away.

For all these varied rocks, it is structures that really get people excited about Pembrokeshire geology with superb folding and faulting on a grand scale. These date from the Variscan Orogeny and mainly occurred during the Carboniferous. The landscape is 'finished off' with the effects of glaciation and changes in sea level giving rise to wave cut platforms and raised beaches. There's something for everyone here in Pembrokeshires!

Getting There

Narberth is on the railway with a decent services on the Haverfordwest line. By road, Narberth is only 10 miles from the A40, which gives good access to the M5 and M4 and hence the rest of the country.

Getting Around

We hope to be able to run this course using shared cars, but if not a hired minibus will be used. (If this is the case, an extra charge, note exceeding £75.00 per person will have to be levied.)

Walking

Whilst some of the terrain is rough, we do not intend doing anything particularly difficult or daunting. We'll get

you as close as possible to the relevant sites and will, in almost every case, involve minimal walking distances. Please be advised that there will be steep ascents and descents as we go down to beach level in a number of places. Everything therefore should be within the capabilities of all the party. We'll also take it at a leisurely pace.

However, if at any time you wish to 'opt out' that will be fully acceptable and understood. In view of the uncertainties of the weather you are strongly advised to bring waterproofs and walking boots – particularly as you may be walking over rough ground.

Accommodation & Food

Good food and a good night's rest are vital elements to our courses and we work hard to bring you the best local accommodation. There are few hotels in the area that can accommodate a group such as ours, but we have been lucky to secure the Plas Hyfryd in Narberth, well regarded for its rooms and cuisine. A hearty breakfast, 3-course evening meal and packed lunch for each field day, come as standard. Single accommodation is available, but is limited and subject to a modest supplement. We are happy to help anyone looking for someone to share a twin bedded room – simply indicate on the booking form.

Itinerary

Although not fixed in stone, the following is a guide to what we should be able to see and do:

- Precambrian and Cambrian rocks in the St. Davids area
- Ordovician rocks of the Fishguard area, including Abereddy Bay and Poppit Sands
- Silurian rocks of Marloes Bay
- Old Red Sandstone rocks of Pembrokeshire
- Carboniferous rocks of Pembrokeshire

Cost

For 2 people sharing a double or twin room, the cost of the 7-night tour will be £895.00 per person; for single occupancy, the cost will be £995.00 per person.

What's included in the cost?

- The services of Chris Darmon as tutor who will be available to you at all reasonable times
- Accommodation and meals as specified in the brochure

What's excluded from the cost?

- The cost of travel between your home and Pembrokeshire and return
- Travel insurance
- Incidental expenses
- Lunchtime food on the final day

Things to bring

To get the most out of this course, it would be useful to bring along the following items: field notebook, pencil and pen and a x10 magnifier. In addition, you will find a camera essential to record the stunning views! Don't forget good stout walking shoes or boots and waterproofs.

