

# The Jurassic Coast A Complete Petroleum System

11<sup>th</sup> Feb – 14<sup>th</sup> Feb

Led by Andy Fleet

Level 0

## Jurassic Coast Centre

Victoria House

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Lyme Regis

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*The Field Studies Council (FSC) is an environmental education charity committed to helping people explore, understand and be inspired by the natural world. Each year over 100,000 people experience the FSC through visits to our network of 17 Centres*



## ***Overview of the course***

Accumulations of crude oil and natural gas (petroleum) require certain types of rocks to occur together and for a sequence of geological processes to have occurred. Together these rocks and processes are referred to as a petroleum system. Along the Jurassic Coast we can see examples of the rocks which form part of the petroleum system that gave rise to the Wytch Farm oilfield that is located just to the east of the Jurassic Coast.

During the courses we will visit beach localities along the Jurassic Coast to examine the rocks that are part of the petroleum system: organic-rich source rocks that when buried to reach sufficient temperatures give rise to petroleum; porous reservoir rocks that can hold accumulations of petroleum; and fine-grained mudrocks that can act as seals over reservoirs and so form traps by preventing the upward buoyant movement of petroleum. We will also look for evidence in the rocks of when petroleum must have formed in the area and what events led to it being trapped.

This course will involve some walking over boulders and wave-cut platforms and short stretches of hillside steps. Warm, rainproof clothes, and supportive footwear, such as walking boots, will be required.

## ***About the centre***



Victoria House is a substantial, detached red-brick property boasting lovely views over the town to the coast from many of the rooms. The spacious accommodation includes a large games room with pool table, table tennis plus a small gym and sauna suite. The house has a large terraced patio area with seating and is only 10 minutes walk to the beach and town amenities.

Originally the Victorian train station hotel, this luxurious accommodation would be an ideal base for anyone wishing to bring their partner to have a short break too. The additional price per night would be £40 to include dinner, bed & breakfast. This seaside town boasts a cinema, theatre, museum, coastal and country walks in addition to the local shops.

Accommodation: Victoria House offers 8 luxury rooms with en-suite (some double and some twin) there are a further two bedrooms with shared bathroom.

## ***About Lyme Regis***



The picturesque coastal town of Lyme Regis is set in the centre of Dorset and Devon's Jurassic Coast, England's only natural World Heritage Site, including the Axmouth to Lyme Regis Undercliffs National Nature Reserve, one of the most important wilderness areas in Britain. The Town and neighbouring Charmouth are famous for their geology, coastal erosion and direct access to fossils on the beach including ammonites, marine reptiles and dinosaurs that inhabited the early Jurassic Seas. In the nineteenth century Lyme Regis was home to the renowned fossil hunter and expert Mary Anning and played a pivotal role in the birth of the earth sciences.

Lyme Regis is a great place from which to study the natural sciences offering easy access to the South West and the giant outdoor classroom that is the 95 miles Jurassic Coast. Lyme Regis also has a rich cultural heritage and today offers an eclectic mix of arts and other activities that run throughout the year.

## **About the tutor**



Andy Fleet heads the Mineralogy Department at the Natural History Museum, with years of experience of fieldwork and fieldtrips along the Jurassic Coast. Before joining the Museum he worked in the petroleum industry as a geochemist and ran courses involving the Jurassic Coast.

## **Course fees**

- Sole occupancy Room: £495
- Shared accommodation: £465
- Non-resident: £350

## **What is included within the fee?**

- Up to 10 hours of tuition a day
- Full board accommodation including a cooked breakfast, picnic lunch, home made cakes and an evening meal. Vegetarian and other dietary options are available
- Tea and coffee making facilities
- Use of dedicated wi-fi internet area, games room, sauna and lounge
- Centre organised transport during the course and admission fees

Non-resident course fees include all of the above except breakfast and accommodation.

## **What to bring**

Warm clothing and sensible footwear for walking. Hard hats and hi vis clothing will be provided.

## **Start and finish times**

Resident visitors are requested to arrive on Thursday 11<sup>th</sup> February at reception for registration between 1600hrs and 1700 hrs. An introductory talk will follow. Supper will be between 6.30 pm and 7.30pm. Breakfast will be at 8.30am. The course will end on Sunday 14<sup>th</sup> March at 1400hrs

Non resident guests will be contacted on the day of arrival to confirm the time of the introductory talk

## ***Directions to the centre***

Public transport: Axminster mainline train station is just 4 miles away. This is the London Waterloo to Exeter line. We can arrange for you to be met at the station by minibus but there is also the 31 bus which stops right outside our Course Centre upon request.

Lyme Regis is also on the Jurassic Coast bus service no X53 which runs from Poole to Exeter. The nearest X53 bus stop is 1/4 mile from the Course Centre.

By car: From the West A35 take Rt turning at Raymonds Hill sign posted to Lyme Regis (B3165) and follow for approximately 2 miles – Victoria House is on the left at a small roundabout. If approaching from the East A35 take the B4473 off the Charmouth roundabout sign posted to Lyme Regis. Follow road into Lyme Regis, up through the main street and take the Rt fork opposite the Cinema. Follow up to small roundabout, Victoria House will be on your Rt. There is parking for up to 10 cars. Please indicate if you will be arriving by car.

## ***Booking procedure***

Provisional bookings can be made by telephoning 0845 345 4071 or by completing the online form on the FSC website: [www.field-studies-council.org](http://www.field-studies-council.org)

You will then be asked to complete a booking form, located within the relevant brochure or available to print off from the FSC website.