

STUDY TOUR BOOKING FORM (cont.)

Emergency contact details (Name & telephone no.) _____

Special Requirements (e.g. vegetarian meals) _____

Single occupancy room @ **£175** per person _____

A deposit of **£100** per person should accompany this form.
Please make cheques payable to **Ffestiniog Travel**.

If paying by credit card please complete:

Card number _____

Name on card _____

Expiry Date _____

Issue number (last 3 digits on reverse) _____

Total amount to be debited £ _____

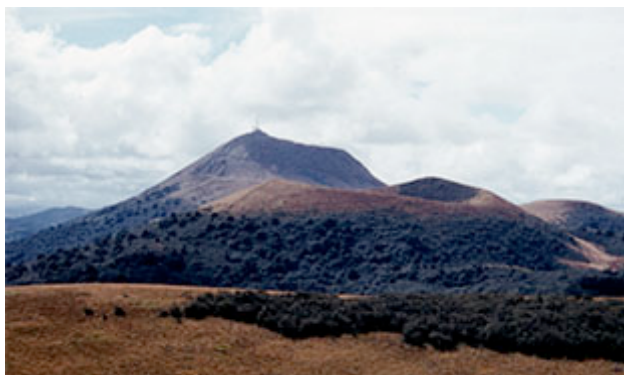
NB Your signature will be taken as an indication that you and members of your party are not travelling against the advice of a qualified medical practitioner.

Signature: _____

Date: _____

**Send this form to: Ffestiniog Travel, First Floor, Unit 6,
Snowdonia Business Park, Penrhyndeudraeth,
Gwynedd LL48 6LD**

Telephone: 01766 772030



*Cover: Section through an explosive volcano
Above: Puy de Dôme and neighbouring volcanoes
Back: Mist over the Velay volcanoes*

Photographs by Roger Suthren



THE STUDY TOUR runs from Saturday 20 June to Sunday 5 July, 2009.

The fee of £1,945 includes:

- all transport, travelling from Wilmslow and Manchester Airport to London by coach, and then by Eurostar and express trains to the field area; coach travel in central France;
- accommodation in twin-bedded rooms on **half-board** basis in comfortable, traditional French hotels offering regional cuisine;
- evening meals for 14 nights; all breakfasts;
- all scheduled excursions and entrance fees;
- services of expert leaders throughout the trip;
- illustrated excursion guidebook.

Single rooms are available for a supplement of **£175**. Insurance, lunches, dinner on the first night and any optional entrance fees are not included.

For your complete financial protection, and as required by European and UK law, this tour is organized through Ffestiniog Travel, who are fully bonded and holders of ATOL licence 3047 granted by the Civil Aviation Authority. Ffestiniog Travel is a member of the Association of Independent Tour Operators. Booking forms for the study tour should be sent to: Ffestiniog Travel, First Floor, Unit 6, Snowdonia Business Park, Penrhyndeudraeth, Gwynedd LL48 6LD. The company will also be responsible for your final invoicing, and will be happy to discuss any matters concerning transport arrangements, including requests for add-on travel after the tour. All bookings are accepted subject to the booking conditions of Ffestiniog Travel, a copy of which will be sent with the acknowledgment of deposit, or may be obtained in advance from the above address. Participants are required to be adequately insured. Standard travel insurance for the period of the tour is sufficient. Ffestiniog Travel will be pleased to provide an application form if required. Final invoices will be sent out about 12 weeks in advance of travel for payment 10 weeks in advance. For telephone bookings or enquiries contact Gina Warren on 01766 772030; fax 01766 772049, or e-mail info@ffestiniogtravel.co.uk

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GEOLOGY AND SCENERY OF THE FRENCH

MASSIF CENTRAL

A DAY SCHOOL AND A STUDY TOUR



THE WILMSLOW GUILD

CENTRE FOR ADULT EDUCATION
1 Bourne Street, Wilmslow, Cheshire SK9 5HD
Tel 01625 523903

FFESTINIOG TRAVEL

THE FRENCH MASSIF CENTRAL is famous for its volcanoes, ranging from very young, superbly preserved cones and lava flows erupted only a few thousand years ago, to older lava plateaux and stratovolcanoes deeply dissected by erosion to reveal their inner structure. Associated with the volcanoes are hot spring activity and mineral deposits. Much of the very early work on volcanoes (e.g. by Scrope and Lyell) was done in this region.

The Day School and the Study Tour have several themes:

- Volcanic processes: lava flows, explosive eruptions, volcano collapse and erosion.
- The geological make-up of the region, its complex geological history, and how the geologist pieces together that history, using evidence from outcrops, rocks and maps.
- The study and management of geological hazards, notably the possibility of future volcanic eruptions.
- The landscape (including the vegetation) and how it is influenced by geology and climate, with visits to see excellent examples of particular types of volcanic and other landforms.
- The exploitation of geological resources through human history, ranging from building materials, mineral water springs and thermal spas to land use (including wine grapes and cheese production).

THE STUDY TOUR will traverse the Massif Central from west to east, starting in the Limousin region, moving to the volcanic heart of the Auvergne, and ending in the Velay district. It will include visits to volcanoes, outcrops, viewpoints, museums, visitor centres, gardens and other sites of interest.

The Massif Central has much more to offer than volcanoes and magnificent mountain scenery. We start in the area west of Limoges, the site of a huge meteorite impact 207 million years ago. The igneous and metamorphic 'basement' which underlies much of this upland region contains a variety of rocks, structures and economic mineral deposits. All this is the result of a major episode of mountain building – the Variscan (or Hercynian) event, some 300 million years ago, whose effects reached as far as Northern England. At various times, the basement was broken up by faulting to form rift valleys: Carboniferous coals were mined in the Massif, and important terrestrial deposits containing Tertiary vertebrate fossils are displayed in local museums. Spectacular landforms were created by Quaternary glaciation. There is great botanical and wildlife interest, and many beautiful mediaeval towns and villages, often built of local volcanic materials. Auvergnat cuisine includes a superb range of cheeses and charcuterie, hearty country dishes and local wines and liqueurs.

TRAVEL: After travelling to London St Pancras by coach, the Study Tour begins with a rail journey through England and France, using Eurostar and express train services to Limoges. The excursion will be based in four main centres, at hotels offering local atmosphere and food.

We plan to spend two nights in the Limousin region near Limoges, to see the products of the Triassic meteorite impact. We may also visit the memorial village of Oradour-sur-Glane.

We then travel east into the Auvergne, where we will spend a week at our second hotel in the spa town of La Bourboule, exploring the very recent volcanoes of the Chaîne des Puys near Clermont-Ferrand, and the glacially eroded Monts Dore stratovolcanoes, in beautiful 'Alpine' scenery. We also study the basement rocks and their mineral deposits.

Our third centre for three nights is on the eastern side of the Cantal stratovolcano, a huge edifice which suffered catastrophic collapse at several stages in its history. This is also an area of flood basalt volcanoes and hot spring activity, which is still exploited for urban heating.

Our final centre is in the Velay region, allowing us to explore the rift valley volcanoes around the beautiful volcanic city of Le Puy, and their extension into the high Ardèche region.

Our final night is spent in Lyon, from where we make our return journey to England by train, using the high-speed TGV and Eurostar.

The Study Tour leaders:

Dr Roger Suthren and Mr John Spawton (Guild Principal)

Roger Suthren is an experienced leader of university and adult education geological study tours to various parts of Europe and North America.

THE DAY SCHOOL will include lectures illustrated by slides, a demonstration of rock specimens and photographs, and study of geological maps of the region. The lectures will cover the geological evolution of the region, with particular emphasis on the young volcanic activity. Themes will include regional geography and geology, volcanic landscapes, hazardous processes on volcanoes, the use of geological materials in the region through history, and the influence of geology on land use.

The Day School will be held on **Saturday 21 February 2009** at the Wilmslow Guild, 1 Bourne Street, Wilmslow, Cheshire, SK9 5HD. The Day School is open to all interested, not just to those intending to participate in the Study Tour. Participants are invited to arrive in time for coffee at 10.30 a.m. The Day School will finish at around 3.30 p.m. The fee of **£25** includes tuition, coffee, lunch and tea. Cheques for the full amount (no fee reductions) should be made payable to the **Wilmslow Guild** and sent to the address above. Early booking is advised; no tickets will be issued on the day.

STUDY TOUR BOOKING FORM

PLEASE COMPLETE BOTH SIDES OF THIS FORM

Please include details of all persons to be included in this booking

Title	_____	Surname	_____
First Names	_____		
Date of birth	_____	Passport No.	_____
Issue Date	_____	Expiry Date	_____
Nationality	_____		

Passport Issuing Office	_____		
Title	_____	Surname	_____
First Names	_____		
Date of birth	_____	Passport No.	_____
Issue Date	_____	Expiry Date	_____
Nationality	_____		

Passport Issuing Office	_____		
Address	_____		

Daytime telephone no. _____

Emergency contact details (name & telephone number)

DAY SCHOOL BOOKING FORM	
Title	_____ Name _____
Address	_____

Daytime telephone no. _____	
Tickets required (@£25 per person) _____	
Total enclosed	_____ £
Send this form to:	
Wilmslow Guild, 1 Bourne Street,	
Wilmslow, Cheshire SK9 5HD	
Tel 01625 523903	

