

## Snowdonia, 5<sup>th</sup> June 2017

This field visit is to the Moelwyn Mountains, at Tanygriseau, near Blaunau Ffestiniog. It will introduce you to the Ordovician and Silurian sedimentary strata, which was injected with island arc, partially submerged volcanism, at a subduction zone. Affecting the whole of North Wales, deformation caused by the Caledonian Orogeny, folded the country rocks and metamorphosed much of them to slate. Other rocks were contact metamorphosed by the magma.

The area is exceedingly beautiful, with lakes, waterfalls and fine walking country, with geology at every turn, some sculpted by ice, or the activities of man. Although this is mountainous country, the paths are well marked and easy to navigate and we will be moving slowly along them. However, a reasonable fitness level is required and sturdy footwear.

In addition to examining the local rocks, there will be a visit to a slate mine and an interesting and most enjoyable ride on a narrow gauge mountain railway. If you are interested in joining the party for this trip, please let Dr Anne Padfield know, by adding your name to the list at the meeting, or ask Anne for more information, if required.

### Itinerary 5-6 Nights

Day 1. 6<sup>th</sup> June. Walk to Lake, past waterfalls and *roche moutonee*, viewing disused slate mine spoil heaps, rock units and stream on the way.

Day 2. 7<sup>th</sup> June. Am. Walk around lower Power Station lake. Pm. Ride on narrow gauge mountain railway.

Day 3. 8<sup>th</sup> June. A full day walk to Upper Power Station lake, to view dam and geology.

Day 4. 9<sup>th</sup> June. Am. Visit to a slate mine. Pm. A ride through Snowdonia National Park.

Day 5. 10<sup>th</sup> June. Optional. Further visit to Upper Power Station lake, if required.