



Dear Colleague

Re: FREE CPD Workshops

Marble Arch Caves Global Geopark and ESEU invite you to attend a *free* Earth physics CPD Workshop at the Marble Arch Caves Visitor Centre on **Tuesday 27th March 2012**, delivered by the Earth Science Education Unit (ESEU).

ESEU is based in the School of Public Policy and Professional Practice at Keele University, Staffordshire. ESEU's 'core business' is to provide INSET in Earth science to teachers through secured funding from Oil & Gas UK.

ESEU has developed Earth physics interactive hands-on practical 90-minute workshops for the Leaving Certificate Physics specifications. Stephen Davies, an ESEU Facilitator, will be presenting the following interactive practical workshops as set out in the programme below:

Tackling Climate Change through Earth Physics: how does climate change work and what can be done about it? Consider the physics behind how climate change could affect the Earth, before investigating different methods of generating power that have low greenhouse gas emissions. Finally, decide which power source would be most appropriate for your region.

The Seismology Story: how are seismic waves generated and detected and what can this tell us about the Earth? Try a range of activities, including some of those from the Gatsby Science Enhancement Programme's 'Seismology' publication, to investigate how Earth physics can reveal crucial information about Earth processes and structure.

The Geophys Story: try using the 'Geophys' of 'Time-Team' to detect 'things beneath the ground' in the same way as geophysical techniques find archaeological remains, buried infrastructure and natural resources. These activities show how school physics is used in 'real world' situations.

Time	Activity
9.30am - 9.45am	Tea/coffee on arrival
9.45am - 11.15am	Tackling climate change through Earth Physics
11.15am - 11.30am	Tea/coffee break
11.30am - 1pm	The Seismology Story
1pm - 2pm	Lunch provided
2pm - 3.30pm	The Geophys Story

The programme was designed to improve the teaching of Earth science and Physics topics. The workshops will raise staff confidence and enthusiasm in teaching about the active Earth and its application to Physics. The philosophy of the Unit is to generate awareness of Earth science in everyday life by enthusing, inspiring confidence and motivating teachers in their teaching and dissemination of information to pupils, who in turn, will become the 'informed citizen' of the future.

If you would like to attend I would be very grateful if you could confirm your attendance by Friday 16th March by emailing klemon@cavancoco.ie or by telephoning 048 6634 8855.

We look forward to hearing from you.

Yours sincerely,



Dr Kirstin Lemon
Geopark Geologist