

## WESTMORLAND GEOLOGICAL SOCIETY

### E-MAIL NEWSLETTER No. 87 November 2023

#### **Winter Programme**

On 18<sup>th</sup> October a large audience gathered to hear Dr Frances Butcher give an inspiring account of her work in establishing the existence of water on Mars. This work depends on some exceptionally high-resolution scans of the planet's surface to identify features analogous to those found on Earth. However, the very different atmospheric conditions on Mars make the interpretation of such features very much less than straightforward. Dr Butcher explained the importance of this work for future of space exploration projects.

The future programme of lecture this winter is as follows:

15/11/2023 Dr Colin Waters Univ Leicester Carboniferous Limestones, Millstone Grit Gp & Yoredale Gp of the Pennines

20/12/2023 Members Evening

17/01/2024 Dr Steve Brusatte Univ. Edinburgh Palaeogene Mammals evolution ZOOM

21/02/2024 Dr Hugh Tuffen Univ. Lancaster President's address

20/03/2024 Prof Emrys Phillips BGS Shear Genius: soft-sediments, shear zones and how glaciers move

17/04/2024 Dr Paul Carling Univ. Southampton Regionally-extensive ejecta layer of the Australasian tektite strewn-field: the MIS 20 large meteorite impact in Indochina

#### **Tutorials**

This month's Thursday Tutorial will be on Thursday November 23rd when Paul Helm will be talking about 3D visualization of geological locations - and showing us how to do it using a phone for the pictures and (relatively) simple software to generate the 3D images.

Tutorials will be starting at 2.15 pm this season

#### **Down to Earth**

The November edition of Down to Earth Extra accompanies this Newsletter

#### **Changes to Programme**

Changes to the published programme are sometimes unavoidable, often at the last minute, so please check the Society's website before setting off to attend any event.