**ODA Annual Lecture November 2022**

This year’s Lecturer is Dr. Peter Kokelaar, Herdman Chair of Geology at the University of Liverpool, who will talk on the “Landscape evolution of southwest Wales: revelations of a dynamic Earth”  
 Peter grew up on Gower, attending Penclawdd Junior School before moving on to Gowerton Grammar School and Llandaff Technical College. He subsequently studied Geology at Aberystwyth, Geochemistry at Oxford, and Volcanology back in Wales, leading ultimately to his appointment as George Herdman Chair of Geology at the University of Liverpool.  
Peter retired in 2014 and returned to Penclawdd, where between 2018-2021 he authored ‘All our own water: Landscape evolution, caves and hydrogeology of Gower’.  
The synopsis provided by Peter for his lecture is as follows:  
*“In contrast to our early school days, we now have extraordinarily detailed images of the land surface and sea floor and can apply modern Earth understanding to what we observe. We find that Lundy is a remnant of a 60-million-year-old volcano and was an outlier of a vast volcanic province that, before opening of the northeast Atlantic, reached across northwest Britain and Greenland. The volcanoes record a huge ‘mantle plume’ that caused massive uplift and erosion and still exists centred beneath Iceland. Opening of the Atlantic by seafloor spreading ultimately led to subsidence and marine planation, but the ‘Ice Age’ exposed the land again, so cutting our sea cliffs and giving context to former local inhabitants including the hippopotamus, woolly rhinoceros, and humans*.”  
We are sure that you will find this a fascinating lecture and look forward to your attendance and continuing support.