HARROW & HILLINGDON GEOLOGICAL SOCIETY

A Local Group of the Geologists' Association ***Founded 1973***

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2024 Geo-futures

A series of talks showcasing advances in the research and practice of geology.

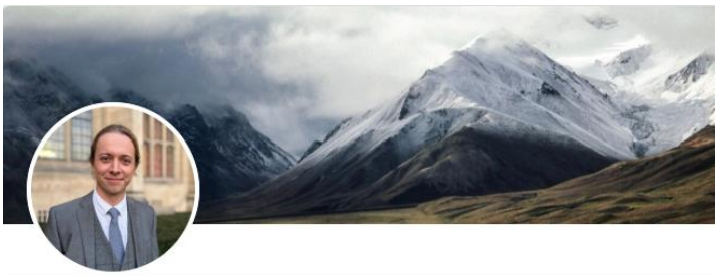
Wednesday 13th March 2024 at 8pm on Zoom

Climate change: Antarctic bivalve resilience over the Cretaceous-Paleogene extinction

Calum Macfie, MSc, **EcoAct** (Palaeobiology graduate from Bristol University)

This talk will describe my journey from palaeobiological research to work that contributes to positive environmental and societal progress. It will focus on my research at the University of Bristol, which explored changes in bivalve body size across the Cretaceous-Paleogene extinction event, using fossils from the British Antarctic Survey Seymour Island collection. As the Cretaceous-Paleogene extinction is an analogue for the rate of anthropogenic climate change, this study provides insight for prediction efforts, and a dataset that can inform modelling efforts through comparison with similar data from modern-day organisms.

I now work as an analyst for EcoAct, which is an international sustainability consultancy and project developer. EcoAct aims to help businesses to reduce their carbon emissions through carbon reduction and sustainability projects, water reporting, energy efficiency, as well as offsetting residual emissions.



Calum Macfie completed an MSc in Palaeobiology at the University of Bristol, for which he was awarded a Master of Science with Distinction. His study background and career choices make him a speaker of interest for our Geo-futures lecture series.

Awards

Geologist's Association Curry Prize: Best Master's Thesis on an Earth Sciences topic from a UK University.

2022 Micropalaeontological Society Student Award for report: "Relics of the past, reflections of the future; climate change analogues and the marine microfossil record"