



HARROW & HILLINGDON GEOLOGICAL SOCIETY

A Local Group of the Geologists' Association

Founded 1973

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Volcano Lecture Series 2025

Non-members, please register by email: contact@hhgs.org.uk

Wednesday 11th April 2025 at 8pm on Zoom

“Unravelling the past from hidden volcanic ash”

By Prof Siwan Davies (Swansea University)

Unearthing ancient volcanic ash from the depths of ice sheets and lakes has provided critical evidence of our reconstruction of past environments and climates. This lecture explores the power of tephrochronology for constraining the timing of past climatic changes and the challenges of detecting and characterising microscopic volcanic ash particles hidden within vast geological and environmental archives.

Tephrochronology: using volcanic ash (tephra) to date events - [Ash Ice Mud](#)



Professor Siwan Davies is a world-leading climate change expert whose research focuses on analysing ice cores to understand climate history. She works closely with the Ice and Climate Group at the University of Copenhagen and will be joining us on Zoom from Copenhagen where she is sampling ice-cores in the freezer.

Professor Davies is part of the East Greenland Ice-core Project (EastGRIP) to drill an ice core 2,550 meters through the ice sheet to the bottom and through the north-east Greenland ice stream.

[Swansea climate expert to brave - 20C conditions 11 hours a day drilling deep into ice in Greenland | Wales Online](#)

Greenland Dome, where the research team could eat, relax and socialise. (Image: Sepp Kipfstuhl)

