Course Summary
This Course introduces the scientific underpinning of tephrostratigraphy and tephrochronology and the essential practical skills required to undertake tephra studies in palaeoenvironmental records.

The course is based upon lectures, and practical classes, with about 50% of the course being based around practical teaching.

Learning Outcomes
By the end of this course, in which practical exercises and assessed coursework form an integral part, students should:
• Be aware of the scientific underpinning of tephra research
• Be aware of methodologies used to identify and correlate tephra
• Be aware of the potential for improving age models based by integrating tephra with other dating and correlation methods
• Be able to extract distal ash from host sediments, identify microscopic tephra and evaluate tephra chemical data
• Be able to integrate tephra with various dating methods

Key Content
The detailed syllabus includes the following topics:
• Volcanological background to tephrochronology and tephrostratigraphy
• Transport, deposition and stratigraphic issues in distal tephra research
• Identification and extraction of distal tephra
• Geochemical characterization of tephra
• Age modelling and tephrochronology

Date
14th - 18th January 2019

Tutors
Dr Ian Matthews

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