

Andrew Storey

Doctoral Researcher

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About

Title of PhD: Late Silurian trilobite palaeobiology and biodiversity

Supervisors: Dr Alan Thomas, **[Dr James Wheelley \(/staff/profiles/gees/wheelley-james.aspx\)](/staff/profiles/gees/wheelley-james.aspx)**, and Dr Phil Lane (University of Keele)

Andrew Storey is undertaking doctoral research into trilobite assemblages from the late Silurian of Britain. The project focuses on the formal documentation of trilobite communities occurring in shallow water facies of England and Wales, but also includes the study of an unusual deep water fauna from the Lake District Basin, and the global biodiversity of trilobites from the end Ordovician (Hirnantian) through the Silurian. It is anticipated that this project will provide insights into the palaeoenvironmental controls on trilobite distribution and diversity.

Qualifications

- Msci Palaeobiology 2.i at University College London
- Msci Project: Devonian trilobite biogeography and evolution

Biography

Andrew previously studied an undergraduate masters degree in palaeobiology at University College London. During his undergraduate studies Andrew developed a keen interest in invertebrates and opted to study Devonian trilobites for his final year dissertation, which led to his current PhD research.

Research

The evolution of marine communities, biodiversity, palaeobiogeography, trilobite taxonomy and associations, the evolution of dalmanitid trilobites.

Research group

Geosystems

Awards and grants

2009 - Palaeontographical Society Research Fund to study British late Silurian trilobite material from museums in the UK

2008 - Synthesys award. European grant to study late Silurian trilobites from Gotland
Substantial faunas exist from both Gotland and Britain, representing some of the largest collections of Silurian trilobites in the world. Of the eighteen families of trilobites known to occur in Silurian rocks, representatives of fifteen are known to occur in both areas. As part of the synthesis grant taxa from Gotland were studied at the Naturhistoriska Riksmuseet, Stockholm. A similar survey of museum collections from the UK is in progress and will contribute towards a detailed comparison of the fauna between Gotland and the UK. The data collected will improve understanding of the systematics of the trilobite faunas of the two areas, and underpin study of the biogeographical, stratigraphical and palaeoenvironmental relationships of the taxa concerned.

Publications

Storey, A. J. & Thomas, A. T. 2008. A deep water trilobite association from the British Lower Ludlow. In: Rábano, I., Gozalo, R. & Garcia-Bellido, D. (eds). Advances in trilobite research. Cuadernos del Museo Geominero, 9, Instituto Geológico y Minero de España, Madrid, 375-379.

Papers in Progress

A deep-water trilobite association from the late Wenlock/early Ludlow of the English Lake District, with Alan Thomas and Robert Owens (National Museum of Wales).

Silurian trilobite diversity, events and sea level, with Alan Thomas.

Late Silurian trilobites from England and Wales, with Alan Thomas.

Conference presentations

Storey, A. J. & Thomas, A. T. 2008. A deep water trilobite association from the British Lower Ludlow, Fourth International Trilobite Conference, Toledo, Spain. [poster]

Storey, A. J. & Thomas, A. T. 2008. A deep water trilobite fauna from the Coldwell Formation (late Wenlock/early Ludlow), of the Lake District Basin, The Palaeontological Association 52nd Annual Meeting, Glasgow. The Palaeontological Association Newsletter 69, abstracts p. 82. [abstract & poster].

