



The
Geological
Society

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Lyell Meeting 2013

The Cambrian Explosion – understanding Earth systems
at the origin of modern ecosystems
Wednesday 13th March 2013

Programme

09.00	Registration & tea, coffee
09.30	Introduction
09.40	The Cambrian Explosion: Animals or Fossils? Kevin Peterson (Dartmouth College)
10.10	Homeobox genes and body patterning at the dawn of Bilateria Peter Holland (University of Oxford), et al
10.40	Transient ocean chemistry during the Cambrian Explosion Robert Gaines (Pomona College) & Shanan Peters (University of Wisconsin)
11.10	Tea & coffee
11.40	Glacio-eustasy during the Cambrian Explosion – a driver for macroevolutionary change Howard Armstrong (Durham University)
12.00	Recent developments in understanding Cambrian Lagerstätten – the Emu Bay Shale Gregory Edgecombe (Natural History Museum, London) et al
12.30	Recent developments in understanding Cambrian Lagerstätten – Sirius Passet David Harper (Durham University), et al
13.00	Lunch (no lunch provided for delegates)
14.00	The hard parts of the Cambrian explosion – multiple origins of animal skeletal biomineralization Duncan Murdock (University of Bristol/University of Bath)
14.30	Animal sediment interactions and the Cambrian Explosion Gabriela Mangano (University of Saskatchewan)
15.00	Did bioturbating 'ecosystem engineers' fuel the Cambrian explosion? Duncan McIlroy (Memorial University of Newfoundland), et al
15.30	Tea & coffee

16.00	The invention of Phanerozoic food webs Nick Butterfield (University of Cambridge)
16.30	Towards a synthesis Martin Brasier (University of Oxford)
17.00	Towards a synthesis – open floor discussion Paul Smith (University of Oxford)
17.30	Reception (sponsored by Network Stratigraphic Consulting Limited)