

PALAEONTOLOGICAL ASSOCIATION
44th Annual Meeting

University of Edinburgh
17-20 December 2000

PROVISIONAL PROGRAMME and ABSTRACTS

Sunday

15:00- 22:00	Registration at Heriot Watt University	From 15:00 Main Hall will be available for erection of posters.
17:15- 19:00	DINNER	

MONDAY

7:30-8:30	BREAKFAST	
From 8:30	Arrival and Registration	
9:00	Welcome to Edinburgh by Kathy Whaler Head of the Department of Geology and Geophysics. Edinburgh University	
9:05	Welcome & Introduction Prof. Euan Clarkson <i>Session Chair: Dr Tim Palmer</i>	
9:15	Dr Mike Benton	The phylocode is coming: Look out!
9:30	Dr Andrew Smith	Cycles of diversity in Earth history. The role of surface area.
9:45	Dr Crispin Little	Hot stuff in the Neotethys: Late Cretaceous hydrothermal vent communities from Cyprus and Oman.
10:00	Sarah Tibbs*	Mineralization of fossils from the Hunsruck Slate, Germany.
10:15	Dr Dmitri V Grazhdankin	Underground Precambrian organisms.

10:30 Dr J J Alvaro, E Vennin E, E Moreno- Eiris, A Perejón
Coelobiontic colonization of cryptic cavities in the Lower Cambrian Pedroche Formation (Ossa-Morena, Southern Spain).

10:45-11:15 TEA BREAK

Session Chair: Prof. Derek Briggs

11:15 Dr Jean Vannier & Dr Jun-Yuan Chen
Building-up of complex marine foodwebs: new fossil evidence from the early Cambrian Maotianshan Shale biota.

11:30 Dr N J Butterfield
Interpreting axial structures in Burgess Shale-type fossils.

11:45 Prof. David A. Harper and Emma Gallagher
Diversity dynamics of the orthide brachiopods.

12:00 Joanna F Snell*
Phylogenetic Relationships of Wenlock Fenestrate Bryozoa.

12:15 Markus Aretz* & Hans-Georg Herbig*
Blue Pool Bay – a coral-reef of the Lower Carboniferous of South Wales.

12:30 Brian Rosen & Moyra Wilson
Do regional pool histories hold the key to global biodiversity theory? Geological control of available habitats in the Cenozoic history of reef coral diversity in the Indo-West Pacific.

12:45-13:45 LUNCH

Session Chair: Dr Charlotte Jeffery

13:45 Andrew Ross
The Purbeck and Wealden Blattodea-opening a can of cockroaches.

14:00 Dr Patrick Orr & Prof Derek Briggs
The impact of taphonomic information loss on the disparity exhibited by fossil arthropods.

14:15 Dr Heather M Wilson*
Phylogenetic position of the Palaeozoic Arthropleurideans.

14:30 Steve Fayers*
A new chilopod from the Pragian Windyfield Chert, Rhynie, Aberdeenshire.

- 14:45 Rod S Taylor Waptiid' arthropods and the significance of bivalved carapaces in the Lower Cambrian.
- 15:00 Kate Saunders* Silurian dendroid graptolites: a review.
- 15:15 JR Evans, WEN Austin, DS Brew & IP Wilkinson Holocene shelf sea evolution offshore north-east England, North Sea.
- 15:30-16:15 TEA BREAK
- Session Chair: Prof Euan Clarkson*
- 16:15 Ken J Dorning Observation the affinities of the acritarchs and marine microflora.
- 16:30 S Grimes, F Brock, D Richard, K Davies, Prof D Edwards, DEG Briggs & RJ Parkes Preserving plants in pyrite.
- 16:45 Andrew C Scott, Barry H Lomax, Margaret E Collinson, Garland R Upchurch & David J Beerling Global Fire at The K/T boundary: Myth or reality? - new evidence from North America.
- 17:00 L Rantell, S Rigby & B Rickards Spines in scandent graptoloids
- 17:15 Dr Morteza Tobaei & R Y Singh Palynozonation of Lower Tertiary sediments of Western Rajasthan, India with reference to Akli Lignite.
- 18.30 Buses will leave Riccarton Campus for Annual Dinner at the National Museums of Scotland
- 23:00 Buses will leave National Museums

TUESDAY

7:30-8:30 BREAKFAST

Session Chair: Prof. Chris Paul

- 9:00 Charles Wellman Spore assemblages from the Lower Devonian sequence of the Rhynie outlier: evidence for the palaeoecology of the Rhynie chert plants.
- 9:15 M E Collinson, JJ Hooker, E S Lindars, S Grimes & D P Matthey Terrestrial palaeoenvironmental reconstruction using co-occurring cainozoic plants and mammals: biotic and isotopic approaches.

9:30	Alistair J McGowan	Macroevolutionary patterns of Triassic ammonoids: Clade shape analysis.
9:45	N Hollingworth, L Cherns & J Hilton	Ammonite soft body preservation and functional morphology.
10:00	Prof John H Callomon	The Middle Jurassic ammonites of East Greenland.
10:15	Dr Liz Harper	Hunting the killer octopus.
10:30	Walter K Christensen	Gradualistic evolution in Belemnitella from the middle Campanian of Lower Saxony, NW Germany.
10:45- 11:15	TEA BREAK	
	<i>Session Chair: Prof. Steven K Donovan</i>	
11:15	L Cherns, P Hodges & VP Wright	More missing molluscs: a fresh look at the Lower Lias.
11:30	Dr R A Henderson	Palaeoecology of the east Australian lower Cretaceous Toolebuc Formation: an unusual association of Inoceramus and oil shale.
11:45	M Sutton, D Briggs, D Siveter & D Siveter	A soft-bodied mollusc preserved in three dimensions, from the Silurian of England.
12:00	Chris Holmden & John Hudson	Jurassic palaeosalinities: surprising results from strontium isotopes.
12:15	Dr Peter W Skelton	The character and episodic history of cretaceous carbonate platform systems.
12:30	Dr Sara A Marcus	Reevaluation of Cyttarocrinus ontogeny (Crinoidea, Camerata): implications for disparid crinoid phylogeny.
12:45- 13:45	LUNCH	
	<i>Session Chair: Prof. Mike Benton</i>	
13:45	Joseph Botting	A glimpse of the "chitinozoan animal?".

- 14:00 Dr W E N Austin & JR Evans North East Atlantic benthic foraminifera: Modern distribution patterns and palaeoecological significance.
- 14:15 Andreas Maas First results on the Phosphatocopina (Crustacea) Of the Upper Cambrian 'Orsten' of Sweden.
- 14:30 David J Siveter, Dieter Walossek & Mark Williams Withdrawn
- 14:45 Gareth J Dyke The fossil waterfowl (Aves, Anseriformes) from the Tertiary of England.
- 15:00 Dr Ian Jenkins Gorgonopsid ecomorph niche-filling after the P-Tr extinction by 'aeluromorph' moschorhinid theropcephalians: a Finite Element approach.
- 15:15 Dr Jennifer A Clack Head first - the skull roof in early tetrapods.

15:30-16:00 TEA BREAK

Session Chair: Dr Paul Smith

- 16:00 Dr Philip C J Donoghue & Dr M Paul Smith The anatomy of *Turinia pagei* and the phylogenetic status of thelodonts.
- 16:15 Dr Mark Purnell Snouts and mouths: heterostracan feeding and early vertebrate evolution.
- 16:30 Kenneth A Monsch Billfish are monophyletic and scombroid: the fossils say yes!.
- 16:45 H O'Regan* The Biogeography of Large Pleistocene Carnivores in Europe.
- 17:00 S Reynolds* Something old? Something new? The Mystery of the Lincoln Cave, Sterkfontein.
- 17:15 M Gudo & M Grasshoff The Evolution of Animals: Applying the Methods of Engineering Morphology to bauplan transformations
- 19:30 Buses will leave Riccarton Campus for British Geological Survey Reception

22:30 Buses will leave British Geological Survey to return to Riccarton Campus

Wednesday

9:00 Buses will leave Riccarton Campus for Field Excursions

[webmaster](#)