

41st Annual Meeting Cardiff, 1997

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PROVISIONAL PROGRAMME

Compiled by Chris Berry

Monday 15th December

4.00pm Registration, University Hall
5.30pm Buses to National Museum of Wales
6.00pm Reception, National Museum of Wales
7.30pm Buses return to University Hall
8.00pm Dinner

Tuesday 16th December

* indicates a candidate for the President's Award; + indicates the speaker in multi-authored contributions if not a candidate for the President's Award.

8.50 Welcome

9.00 * **C.J. Smith, H.A. Armstrong and A.W.Owen**

Late Ordovician deep water conodonts: patterns of species change during a marine transgression

9.20 **Phil Donoghue**

Solving the conodont growth conundrum

9.40 + **Ivan J. Sansom, M. Paul Smith and Moya M. Smith**

Astraspis - reconstructing and recoding an Ordovician fish

10.00 **D. M. Unwin**

Hind limb kinematics of pterosaurs during terrestrial locomotion

10.20⁺ N. N. Bakhurina and D. M. Unwin

Soft tissue preservation in the pterosaur *Sordes pilosus* and its palaeobiological significance

10.40 Coffee

11.10 Ian Jenkins

Finite Element Analysis of cranial mechanics in Permian therapsid 'sabretoothed' predators

11.30 Mags Duncan

Ichthyoliths as biostratigraphic and palaeoenvironmental tools in the Carboniferous of Ireland

11.50 Clive N. Trueman

Geochemical vertebrate taphonomy: rare earth element analysis of terrestrial vertebrate assemblages

12.10⁺ Taniel Danelian and Kenneth G. Johnson

Long-term evolutionary patterns of Jurassic low latitude Radiolaria

12.30^{*} Helen Coxall, Paul Pearson and Nick Shackleton

Evolution and habitat changes in Eocene hantkeninids

12.50 Lunch

2.00⁺ Julio Aguirre and Robert Riding

Diversification of coralline and dasycladalean calcified algae during the Cretaceous and Cenozoic

2.20 Kenneth G. Johnson

Miocene diversification of the Caribbean reef-coral fauna: new data from the Tamana Formation, Trinidad

2.40^{*} Jeff Lord

The taphonomy of a Waulsortian carbonate buildup

3.00⁺ Graham A. Young and Robert J. Elias

Relationships between internal and external morphology in *Paleofavosites*

3.20⁺ Michael J. Weedon and Paul D. Taylor

Comparative biomineralization in cheilostome and cyclostome bryozoans

3.40 Afternoon tea

4.10 Richard Bettley

The Middle Ordovician fauna of the Welsh Basin; its use in defining a chronostratigraphic standard

4.30 Kay Mannifield

Crinoid stem ossicles as biostratigraphical and palaeoecological tools in the Carboniferous of northwest Ireland: problems and potential

4.50 Olga Bogolepova

Endocerida in the Silurian of Siberia

5.10 ^{*}Vivian Alexander Ratter

Lower Silurian palaeotaxodont bivalves from Wales and the Welsh Borderland

5.30 ^{*}Chris Peel

The life and times of *Dunbarella*

6.15 Buses leave University Hall

6.30 Reception, University of Wales Cardiff

7.30 Annual Dinner, National Museum of Wales

Wednesday 17th December

9.00 ⁺Andrew C. Scott, John Anderson and Heidi Anderson

Plant-insect interactions in the Triassic of South Africa and the problem of taphonomic bias

9.15 ⁺S. Henry Williams and Lorne C. Clarke

Structure and taxonomic significance of the graptolite prosicula

9.30 David K. Loydell

Early Silurian sea-level changes

9.45 ⁺Paul Wignall and Richard Twitchett

The Permo-Triassic mass extinction in East Greenland

10.00 Malcolm B. Hart

The evolution and biodiversity of Cretaceous planktonic Foraminiferida

10.15 ⁺Paul D. Taylor, Frank K. Mckinney and Scott Lidgard

Ecological competition and macroevolutionary patterns in post-Palaeozoic bryozoans

10.30⁺ Stephen Kershaw and Graham A. Young

Palaeozoic stromatoporoid and tabulate growth bands and their palaeobiological implications

10.45⁺ Simon R.A. Kelly and Peter F. Rawson

The Boreal ammonite succession and zonal sequence in the Early Cretaceous of Greenland

11.00 Coffee

11.30 Joanna L. Wright

Trackways of juvenile dinosaurs

11.50 Simon Braddy

Keeping track of Palaeozoic terrestrial arthropods

12.10 Jason Hilton

Implications of members of the Permian Cathaysian flora on spermatophyte phylogeny

12.30 Kate Habgood

Coprolites as evidence of nutrient cycling in early terrestrial environments

12.50 Lunch

2.00 Matthew A. Wills

Phylogenetic and phenetic approaches to crustacean evolution

2.20⁺ R.D.K. Thomas and Rebecca M. Shearman

Evolutionary implications of the extent and pattern of exploitation of skeletal morphospace by animals of the Burgess Shale

2.40⁺ Graham E. Budd and Ruth A. Dewel

Getting a head in the Cambrian: cephalic composition and evolution in early arthropods

3.00⁺ Sarah Gabbott, Richard Aldridge and Johannes Theron

A new enigmatic fossil from the Ordovician Soom Shale Lagerstätte

3.20^{*} Juliette Dean

Morphological and palaeobiological diversification of the earliest ophiuroids [Echinodermata]

3.40 Coffee

4.10⁺ David J. Siveter and Mark Williams

Cambrian bradoriid and phosphatocopid Arthropoda of North America

4.25⁺ Leonid E. Popov, Lars E. Holmer, Michael G. Bassett

Class Obolellata - the earliest rhynchonelliformean (calcareous shelled) brachiopods

4.40 Tatiana Tolmacheva

Late Cambrian and Early Ordovician conodont clusters in abyssal deposits of south-central Kazakhstan

4.55 David H. Evans

The cephalopod fauna of the Durness Group of northwest Scotland

5.10 J.E.A. Marshall

A novel early Mid Devonian reproductive structure

7.30 Dinner

Thursday 18th December

Field trips

a) Lower Palaeozoic of Builth (P. Sheldon)

b) South Glamorgan Coast (M. Bassett)