

**PALAEONTOLOGICAL ASSOCIATION**  
**43rd Annual Meeting**

**University of Manchester**  
**19-22 December 1999**

**PROVISIONAL PROGRAMME and ABSTRACTS**

**Monday 20th December**

Scientific sessions

**Tuesday 21st December**

Scientific sessions

**Wednesday 22nd December**

Field Excursions

**MONDAY**

| <b>No.</b> | <b>TIME</b> | <b>AUTHORS</b>   | <b>TITLE</b>  |
|------------|-------------|--|---|
| A1         | 0915—0930   | Nicholas J. Butterfield  | Sex, multicellularity and first 'big bang' of eukaryotic evolution  |
| A2         | 0930—0945   | Matthew Collins  | Biomolecular Palaeontology?so far, so what?   |
| A3         | 0945—1000   | Lucy M. E. McCobb*   | Dishing the dirt on our ancestors: fossilisation in archaeological cess pits and its implications for the fossil record |
| A4         | 1000—1015   | M. D. Sutton, D. E. G. Briggs, David J. Siveter & Derek J. Siveter | Grinding out the morphology?new approaches to three-dimensional reconstruction  |

- A5 1015—1030 Cindy V. Looy & Richard J. Twitchett\* Synchronous collapse, and recovery, of the terrestrial and marine ecosystems during the Permian—Triassic interval
- A6 1030—1045 Neil D. L. Clark The Elgin Marvel

## COFFEE

- B1 1115—1130 J. H. Roberts Evolutionary response to fluctuating climate in the Quaternary
- B2 1130—1145 Joseph P. Botting\* The ecological effects of volcanic ash-fall in the Middle Ordovician of central Wales
- B3 1145—1200 Frederick R. Schram, Cees H. J. Hof & Fedor A. Steeman Thylacocephala (Arthropoda: ?Crustacea) from the Cretaceous of Lebanon
- B4 1200—1215 Lyall I. Anderson\* Rhynie revisited: new discoveries from an early Devonian, terrestrial, hot-spring basin, Aberdeenshire, Scotland
- B5 1215—1230 Simon J. Braddy\* Eurypterid palaeobiology: breathing life into fossil sea scorpions
- B6 1230—1245 Phillip Manning Palaeoecology of eurypterids from the Upper Silurian of the Welsh Borderland

## LUNCH

- C1 1400—1415 Michael Gudo & Dominique G. Homberger Functional morphology of the coracoid bar of the Spiny Dogfish (*Squalus acanthias*): implications for the evolutionary history of the shoulder girdle of vertebrates
- C2 1415—1430 Howard A. Armstrong & Caroline J. Smith Environmentally entrained growth in the earliest vertebrate teeth
- C3 1430—1445 Mark A. Purnell Chips on fish teeth: wear patterns and feeding in extinct aquatic vertebrates
- C4 1445—1500 Mike Benton The origins of herbivory in dinosaurs
- C5 1500—1515 Kenneth A. Monsch Where do mackerel come from?
- C6 1515—1530 David M. Unwin, Julio Company, José I. Ruiz-Omeñaca & Xabier Pereda-Suberbiola The Solana dragon: a giant pterosaur from the Late Cretaceous of Spain

C7 1530—1545 Richard J. Twitchett Palaeoecology, preservation and the myth that fish are immune to mass extinction events

## TEA

- D1 1615—1630 Bjarte Hannisdal\* Cladistic analysis of rugose corals?some methodological aspects
- D2 1630—1645 Brian Rosen Do communities evolve? Two hundred million years of taxonomic change and morphotypic stasis in platy coral assemblages
- D3 1645—1700 Mike Simms, Cris Little & Brian Rosen Serpulid reefs or mineralised corals? Enigmatic colonial organisms in the Lower Jurassic marginal facies of South Wales
- D4 1700—1715 Nick Clack\* Palaeoecological reconstruction of Lower Cretaceous coral communities of the Neo-Tethys: examples from the Barremian and Aptian of southern France
- D6 1715—1730 Stephen Kershaw, Rachel Wood and Li Guo How did Palaeozoic stromatoporoids relate to their substrates?

## TUESDAY

| No. | TIME      | AUTHORS   | TITLE   |
|-----|-----------|---|---|
| E1  | 0900—0915 | Marcus M. Key, Jr, Patrick N. Wyse Jackson, Abigail M. Smith & Catherine M. Jamet | Measuring growth rates in fossil bryozoans: inferences for carbonate production                         |
| E2  | 0915—0930 | Martin C. Munt  | Eccentric gastropod shell growth induced by barnacle bioimmuration                                      |
| E3  | 0930—0945 | Paul D. Taylor & Mark A. Wilson   | Rocks and other hard places: hard substrate palaeoecology in the Upper Cretaceous of the Oman Mountains |
| E4  | 0945—1000 | Fiona Brock, Derek Briggs & John Parkes   | Plant pyritization: microbial model experiments   |
| E5  | 1000—1015 | Craig Harvey*   | Middle and Upper Devonian palynology of the Sierra de Perijá, western Venezuela                         |

- E6 1015—1030 Helen Coxall\* The origins and evolution of the hantkeninid planktonic Foraminifera?an intimate view
- E7 1030—1045 Jeremy R. Young, Ian Probert, Chantal Billard, Lluisa Cros, Paul Bown, Sean Davis, Steve Mann, Linda Medlin & Alberto Saez Coccolithophore life-cycles, biomineralisation and sexuality

## COFFEE

- F1 1115—1130 Simon R. A. Kelly, Eric Blanc, Simon P. Price & Andrew G. Whitham Giant bivalves from a Barremian (Early Cretaceous) seep system in Wollaston Forland, Northeast Greenland
- F2 1130—1145 Chris Peel Problems pigeon-holing Palaeozoic 'Paper Pectens'
- F3 1145—1200 Peter W. Skelton & Andrew B. Smith Cladistic analysis of rudist bivalves
- F4 1200—1215 Bertrand Lefebvre Solute morphology in the light of a new system of skeletal homologies for echinoderms
- F5 1215—1230 Stephen K. Donovan & David Schmidt Upper Ordovician crinoids that rose from the grave
- F6 1230—1245 Rosanne Widdison\* Biotic interactions in Wenlock Crinoidea

## LUNCH

- G1 1400—1415 David H. Evans & John R. Graham *Glauconome*: a probable primitive charophyte from the Silurian of Clare Island, County Mayo, Ireland
- G2 1415—1430 J. E. A. Marshall & A. R. Hemsley The earliest known Devonian seed-megaspore
- G3 1430—1445 Beatrice Lucy Dower Sphenopsids from the late early Carboniferous of Paracas (Peru): implications for sphenopsid evolution in Gondwana
- G4 1445—1500 Ian Glasspool A major fire event and its effects on the peat forming vegetation of the Permian, Lower Whybrow Seam, New South Wales

- G5 1500—1515 Howard J. Falcon-Lang\* The relationship between leaf longevity and growth-ring markedness in conifers: palaeoclimatological and palaeoecological implications
- G6 1515—1530 Jane Francis Forests, fire and frost: Jurassic forests and volcanic environments in Antarctica
- G7 1530—1545 Richard J. Hunt\* & John L. Smellie A new Tertiary flora from West Antarctica: implications for palaeoclimate and geochronology

## TEA

- H1 1615—1630 Lesley Cherno and V. Paul Wright Missing molluscs in a Silurian silicified Lagerstätte? evidence of large scale aragonite dissolution in ancient shallow marine settings?
- H2 1630—1645 A. L. A. Johnson, J. A. Hickson, J. Swan, M. R. Brown, T. H. E. Heaton, S. Chenery & P. S. Balson Ontogenetic records in the shell of the Queen Scallop as evidence of late Cenozoic marine palaeotemperatures
- H3 1645—1700 Alistair Crame Changes in molluscan faunas across the K—T boundary in Antarctica
- H4 1700—1715 Adel Ali Hegab & Edward Tkhorghevsky Rhynchonellid brachiopods from Jurassic (Bathonian—Callovian) rocks of Gebel El-Maghara, northern Sinai, Egypt
- H5 1715—1730 Ahmed S. Kassab Definition and correlation of the Turonian sub-stage boundaries in the Egyptian Cretaceous based on ammonites and echinoids
- H6 1730—1745 Magdy S. Mahmoud & Abdel-Rahim M. M. Moawad Palynology, stratigraphy and palaeoecology of the Middle Cretaceous (Aptian to Cenomanian) sequence of the Sanhur-IX borehole, northern Western Desert, Egypt

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\* = eligible for President's Award  
 Speaker (where known) underlined

Please advise Paul Selden ([Paul.Selden@man.ac.uk](mailto:Paul.Selden@man.ac.uk)) of any errors or changes.



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