

**PALAEONTOLOGICAL ASSOCIATION
42nd Annual Meeting**

**University of Portsmouth
16-19 December 1996**

PROGRAMME and ABSTRACTS

Wednesday 16th December

from 14.00 - registration in the Atrium, Portland Building
Ý - setting up posters, displays, etc. in the Atrium, Portland Building
18.00 dinner H.M.S. Nelson
19.30 Guildhall
reception

Thursday 17th December

* = candidate for the President's Award

+ = speaker in multi-authored contributions (if not a candidate for the President's Award)

7.00 - 8.00 Breakfast

8.50 Welcome by Head of the School of Earth, Environmental and Physical Sciences, Dr
David Hughes

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SESSION Ý

1:

9.00 David Martill⁺ and Paul Davis

Ý Ectoparasites on a Cretaceous feather

9.15 Graham Forsythe*

Ý Construction and ecology of late Palaeozoic algal reefs

9.30 Mark Purnell

Ý Feeding mechanisms and the evolution of jawless fish

9.45 Michael Benton⁺, Matthew Wills and Becky Hitchin

Ý Is the Palaeozoic fossil record worse than the post-Palaeozoic

10.00 Simon Braddy*

Ý Permian Polaroids: snap-shots of ancient environments and animal activities

10.15 Cris Little⁺, Taniel Danelian, Richard Herrington and Rachel Haymon

Ý Jurassic vent

10.30 Coffee

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SESSION Ý

2:

11.00 Jason Dunlop*, Dieter Walossek and Klaus Müller

Ý A Cambrian pantopod larva from Orsten and its significance for chelicerate phylogeny

11.15 Stefan Bengtson+ and Hou Xianguang

Ý The skin of chancelloriids

11.30 Franz Fersich

Ý Middle Jurassic benthic associations and palaeoenvironments of the Kachchh Basin, western India

11.45 John Marshall

Ý The link between sea levels and climatic change in a non-glacial world: evidence from the Palaeozoic sequence of the Falklands

12.00 Brian Rosen+ and Kenneth Johnson

Ý Miocene palaeotemperatures of the Mediterranean region from zooxanthellate corals: application of the diversity-energy relationship

12.15 Axel Munnecke, Thomas Servais+ and Daniel Vachard

Ý The Silurian of Gotland - a 'Fossil-Lagerstätte' of Palaeozoic calcareous micro- and nanofossils

12.30 Lunch

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SESSION Ý

3:

14.00 Jenny Clack+ and Per Ahlberg

Ý A re-interpretation of the braincase of the Devonian tetrapod *Ichthyostega stensioei*

14.15 Liz Cook+ and Clive Trueman

Ý Taphonomy of a microvertebrate assemblage from a Lower Triassic fissure deposit at Czatkowice, Crakow Uplands, Poland

14.30 Robert Davidson+ and Nigel Trewin

Ý Re-investigation of classic Scottish Middle Old Red Sandstone fish-bearing nodule localities

14.45 Alan Gishlick

Ý Functional morphology of the hand of *Deinonychus antirrhopus* and its importance for the origin of flight

15.00 Cynthia Marshall+, Daniel Brinkman, Richard Lau and Karl Bowman

Ý Fracture and osteomyelitis in PII of the second pedal digit of *Deinonychus antirrhopus* (Ostrom), an Early Cretaceous 'raptor' dinosaur

15.15 Kenneth Monsch

Ý Supposed *Scromberomorus saevus* (Scombridae, Teleostei) hypural plates from the lower Tertiary, and scombrid relationships

15.30 David Polly

Ý Clio's revenge: using historical data to explore tree-based historical reconstructions

15.45 Coffee

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SESSION Ý

4:

16.15 Paul Wignall

Ý Poikiloaerobic, exaerobic and dysaerobic biofacies - which is correct?

16.30 Sue Rigby⁺ and Sarah Davies

Ý Volcanically mediated plankton blooms in the Silurian of the Southern Uplands

16.45 Jane Washington-Evans

Ý The palynology of the upper Wenlock Series (Silurian) of the Much Wenlock and Ludlow areas, Shropshire, England

17.00 Andrew Henderson⁺, Norman MacLeod and S. J. Culver

Ý The reliability of micropalaeontological data: an example from the Kimmeridge Clay of Dorset

17.15 Charlotte Jeffery* and Richard Emlet

Ý Developmental mode and macroevolutionary correlates in temnopleurid echinoids

17.30 Clive Trueman

Ý The preservation of bone

17.45 David Meyer, Clare Milsom⁺ and Andrew Webber

Ý Biostratinomy of *Uintacrinus* Lagerst"tten: Upper Cretaceous of Kansas and Colorado, USA

18.30 Private viewing of exhibits at Mary Rose Museum, HM Naval Base

19.30 Splicing the Mainbrace on H.M.S. Warrior 1860

20.15 Annual Dinner on H.M.S. Warrior 1860

Friday 18th December

7.00 - 8.00 Breakfast

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SESSION Ý

1:

9.00 Michael Gudo*

Ý Structural-functional aspects in the evolution of the lid corals (Rugosa)

9.15 Gareth Dyke*

Ý The Lower Eocene avifauna of the London Clay

9.30 Stephanie Barrett

Ý The apparatus architecture of prioniodontids

9.45 Kim Freedman*

Ý *Jamoytius kerwoodi* White: an unimaginative interpretation

10.00 Phil Donoghue⁺, Peter Forey and Richard Aldridge

 Ý Conodont affinity, chordate phylogeny and the origin of the vertebrate dermal skeleton

10.15 Karen Cochrane*

 Ý Relationships of Cambrian conodonts

10.30 Coffee

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SESSION Ý

2:

11.00 Peter Sheldon

 Ý Explaining the Quaternary paradox

11.15 Nigel Trewin

 Ý Permian non-marine ichnofaunas from the Falkland Islands; the South Africa connection

11.30 Stephen Donovan⁺ and David Harper

 Ý Fossils, palaeodepth and tectonics: Miocene evolution of Carriacou, The Grenadines, Lesser Antilles

11.45 Barry Lomax*, David Beerling and Garland Upchurch

 Ý Acid rain and Strangelove oceans over the Cretaceous-Tertiary boundary

12.00 Adrian King*

 Ý Temporal separation of basin restriction and the latest Palaeocene warm water pulse in the North Sea: high resolution palynofacies data

12.15 Adolf Seilacher

 Ý Precambrian worm burrows

12.30 Lunch

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SESSION Ý

3:

13.45 Mark Hylton

 Ý Benthic foraminiferal response to the development of low oxygen conditions in the Pliensbachian-Toarcian (Lower Jurassic) of North-West Europe

14.00 Andrew Swan

 Ý Evolution in a fluctuating environment

14.15 David Harper

 Ý Classification and distributional trends within the punctate orthide brachiopods

14.30 Denis Bates⁺ and David Loydell

 Ý Parasitism on graptolites

14.45 Richard Twitchett*

 Ý 'And the small shall inherit the Earth...'

15.00 Andrew Scott⁺, G. Nicholls, J. Cripps, Margaret Collinson and J. Calder

Ý Fire ecology of Cretaceous vegetation in the Isle of Wight, England and Nova Scotia, Canada

15.15 Andrew Francis*

Ý Some palaeobiological aspects of the European Jurassic Trigoniidae

15.30 Gary Mullins*

Ý Direct correlation between the Llandovery-Wenlock (Silurian) chitinozoan and graptolite biostratigraphical schemes

15.45 Coffee

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SESSION Ý

4:

16.15 John Cope

Ý The origin of heterodont bivalves

16.30 Graham Budd+ and S-ren Jensen

Ý All about (metazoan) Eve: a critical reassessment of the early fossil record of animals

16.45 Steve Kershaw

Ý Quaternary reefs of eastern Sicily: growth history and control in a tectonically active region

17.00 Robert Riding+, Huiming Bao and Xinan Mu

Ý Microframe reefs built by calcified microbes, Middle Cambrian, Jinan, North China

17.15 Tim McCormick

Ý Microevolutionary transitions in a lower Ordovician pelagic trilobite lineage

17.30 Rainer Brocke

Ý Early Ordovician palynomorph assemblages from South China and their palaeobiogeographical and palaeogeographical significance

18.00 Dinner

Saturday 19th December

7.30 Breakfast

Field trip to the Isle of Wight

8.40 Catamaran leaves from The Hard

4.15 Arrival back at The Hard, adjacent to Portsmouth Harbour station

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