

## Notice of Annual General Meeting and Annual Address

The 169<sup>th</sup> Annual General Meeting will be held in the Neil Chalmers Seminar Room of the Natural History Museum, London SW7 5BD, on Wednesday, 13<sup>th</sup> April, 2016, at 4.00 pm. The Annual Report of Council will be presented, along with Income and Expenditure Accounts for the year ended 31<sup>st</sup> December, 2015, and Council Members and Officers will be elected for the ensuing year. Tea and coffee will be available from 3.30 pm. This meeting is open to all members of the Society.

The AGM will be followed by the Society's Tenth Annual Lecture, to be given by Dr. Tim Littlewood (Natural History Museum, London) on "The role of fossils in better understanding parasites and parasitism". The event will be held in the Neil Chalmers Seminar Room of the Natural History Museum, Cromwell Road, London, SW7 5BD, at 4.15 pm. This event is open to members of the Society and other interested parties.

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## NEWSLETTER 32

**1 Publications:** Volume 169 was published in November 2015.

**Vol. 169, 2015 (£260.00)**

644. British Jurassic regular echinoids, Part 1, Cidaroida, Echinothuroidea, Aspidodiadematoidea and Pedinoida, by A.B. Smith (pp. 1-67, plates 1-41. £160.00).
645. The Ammonoidea of the Lower Chalk, Part 6, by C.W. Wright & W.J. Kennedy (pp. 404-459, plates 125-145. £100.00).

The Editors welcome suggestions for new titles and would also be grateful for manuscripts that represent concluding or additional parts of ongoing, unfinished monographs.

**2 Subscriptions for 2016** were considered due on 1st January, 2016, and will entitle subscribers to Volume 170. Individual subscriptions are £35.00. Institutional subscriptions are £135.00, though if paid through an agency are £280.00. The Student rate remains at half the individual rate, £17.50. There is a surcharge of £1.50 when subscriptions are paid through PayPal.

Subscriptions can be sent to Dr. T. McCormick, The Treasurer, c/o British Geological Survey, Environmental Science Centre, Nicker Hill, Keyworth, Nottingham, NG12 5GG, United Kingdom (cheques, drawn on a UK bank, should be made payable to 'The Palaeontographical Society'). A subscription renewal form for 2016 (Volume 170) was enclosed with the mailing of Volume 169. If a replacement is required please download one from the Society website or contact the Treasurer.

The Society also accepts credit card payments for subscriptions and renewals via PayPal. If you wish to pay via this method please follow the instructions on the 2016 subscriptions form or visit the Society's website ([www.palaeosoc.org](http://www.palaeosoc.org)).

The Treasurer maintains the membership list and prepares the distribution list for each volume of monographs. Any enquiries concerning subscriptions or methods of payment should be directed to the Treasurer. His e-mail address is [tmcm@bgs.ac.uk](mailto:tmcm@bgs.ac.uk).

**3 The Society's Web Site ([www.palaeosoc.org](http://www.palaeosoc.org)) and Online Shop** continue to be an effective tool for posting new information on the Society (including progress reports for Palaeontographical Society Research Grants and other announcements), and for selling Society publications and enabling credit card payments for membership renewals. To obtain the member's discount from the online shop, a password is required. If you have not already registered your e-mail address with us and have yet to be issued with your personal password, please contact Dr. A. Butcher ([anthony.butcher@port.ac.uk](mailto:anthony.butcher@port.ac.uk)), who will be pleased to issue you with one.

**4 Research funds:** The Palaeontographical Society Research Fund scheme was renamed the Richard Owen Research Fund in 2012. It aims to provide awards in the region of £500 for research on the UK fossil flora and fauna. Please see the website or contact the Secretary ([Steve.Donovan@naturalis.nl](mailto:Steve.Donovan@naturalis.nl)) for further information. The next closing date for applications is 26<sup>th</sup> February, 2016, and the successful applicant(s) will be announced at the AGM. Three grants were awarded in 2015:

Fiona E. Fearnhead (Natural History Museum, London). The British Devonian Crinoidea, Part 2.

Davide Foffa (University of Edinburgh). Thalattosuchian crocodylomorphs from the Kimmeridge Clay Formation.

Hermione Beckett (University of Oxford). Morphological assessment of exceptionally preserved three-dimensional scombroid (tunas and kin) fossils from the London Clay of Britain.

Reports on these projects appears below.

**5 The Edward Forbes Prize:** The Society invites applications for the Edward Forbes Prize, which aims to recognise outstanding contributions by early career researchers in the field of taxonomic and systematic palaeontology (encompassing invertebrates, vertebrates, palaeobotany and microfossils). The Prize, which is to be awarded for publication excellence, comprises £250 and a

one-year membership of the Society. The Prize will be awarded at the Society's Annual General Meeting each year. Full criteria for eligibility are posted on the Society's website.

We invite submissions for the 2016 award on the basis of any eligible article that was published in 2015. Applications should be addressed to the Secretary, Dr. Steve Donovan (Steve.Donovan@naturalis.nl), and must be received by the closing date of 26<sup>th</sup> February, 2016. The decision of the Prize Committee will be announced at the Society's AGM. The successful applicant will be informed in advance, so that they may attend the meeting if they wish.

**6 The Palaeontographical Society Medal:** Council has instigated a biannual award, the Palaeontographical Society Medal, which is intended to recognise a sustained and important series of contributions to taxonomic and systematic palaeontology. In particular, the Society seeks to honour those who have made an exceptional contribution to the micropalaeontology, palaeobotany, or invertebrate or vertebrate palaeontology of the British Isles, including those who have applied these data to solve problems of palaeogeography, palaeoecology and phylogeny. Recipients will not be limited to palaeontologists based in the British Isles, although it is anticipated that this region will form an important element of their research programme. The second award will be made at the Annual General Meeting in April 2016 to Dr. Adrian W.A. Rushton (Natural History Museum, London).

The Council of the Society welcomes nominations and suggestions for future recipients of the Medal. Please contact the Secretary at Steve.Donovan@naturalis.nl.

**7 Discount rate on backstock for Members and Authors:** Individual Members are reminded that they are entitled to a discount of at least 50% on the purchase of one copy of any backstock and reprinted editions where available. This discount is available via the website when using your member login details. Authors are entitled to receive a 75% discount on backparts of monographs they contributed to. If authors wish to purchase backstock they should contact the Treasurer (tmcm@bgs.ac.uk).

Student members are now eligible for a 75% discount off the cover price of monographs published by the Society (see advertisement herein). The discount is not applied automatically in the online store, however, so please contact the Marketing Manager, Emma Bernard at E.Bernard@nhm.ac.uk, if you are interested in making any purchases.

**8 Society Archives:** Members of the Society wishing to view the archives of the Palaeontographical Society should write to the Secretary (Steve.Donovan@naturalis.nl).

**9 Annual Address:** The subject of the Tenth Annual Address is "The role of fossils in better understanding parasites and parasitism". This year's speaker is Dr. D.T.J. (Tim) Littlewood of the Natural History Museum.

**Abstract:** The role of fossils in better understanding parasites and parasitism

*Tim Littlewood, Department of Life Sciences, Natural History Museum, Cromwell Road, London SW7 5BD*

Palaeoparasitology is a term dominant in the fields of archaeology and palaeoanthropology, particularly by those focussing on the delights of human remains, ancient latrines and fossil faeces. Finding evidence of parasitism in and around ancient human remains provides insights into diet, hygiene, health and occasionally wealth. Meanwhile, palaeontology provides a much deeper and richer understanding of parasites, their vectors, and their associations with hosts through time and space. However, the interface between palaeontology and parasitology has been disjointed with neither field finding much traction in the other. Modern analytical tools (such as CT-scanning, ancient DNA studies, biomolecular prospecting, molecular systematics, *etc.*) provide a rich array of comparative data that have both suggested and revealed the intimate relationships between parasites and their hosts as never before. Understanding the origins, evolution and radiation of parasites through time relies heavily on assembling robust phylogenies of parasites, their vectors and hosts. Given the nature of parasites, often cryptic, small, seemingly simple or morphologically modified/reduced to extremes and prone to converge on similar forms, molecular-based phylogenies are fundamental in providing an evolutionary framework for extant lineages. Character traits are subsequently used to infer evolutionary transitions from free-living to parasitic life styles, to estimate ancestral morphologies, the development of life cycles and the pattern of host use or host switching through time. Fossils provide vital evidence for validating phylogeny-derived hypotheses, for calibrating phylogenies (essential in understanding when and where events took place), and for revealing direct evidence of parasite morphology and the nature of ancient host-parasite interactions. Rarity usually means such finds are rich in information. Looking for and making use of fossil parasites requires a mix of serendipity and awareness of what to look for.

**10 Meetings:** The Society is a sponsor of the Lyell Meeting, which will be held in the Meeting Room of the Geological Society (Burlington House) on Wednesday, 9<sup>th</sup> March, 2016. This year's Lyell Meeting is being convened by Drs Ken Johnson (Natural History Museum, London) and Jeremy Young (University College London), and is entitled: "Paleoinformatics: Synthesising data from the past to illuminate the future".

**11 Nominations for Council:** The Palaeontographical Society is open for nominations to council for 2016–2019. The council meets twice a year and is responsible for overseeing the running of the Society and for providing guidance on how it can best serve its membership's needs. Any member of the Society can nominate a candidate and names will be considered at the AGM. Members should nominate a candidate by sending an email to the Secretary (Steve.Donovan@naturalis.nl) together with a statement from the candidate that he/she is willing to be considered.

**12 New members:** We extend a warm welcome to the following recent new members of the Society: Kenneth De Baets, Marc Barkat, Joseph Botting, Simon Crabb, Peter R. Crowther, Simon Guscott, Amanda Hardy, Andy King, Michael Lowe and Ekbert Seibertz.

**13 Sam Morris (1932--2015):** The following notes are compiled from a web announcement written by Claire Mellish and Richard Fortey, and subsequent correspondence. I thank Claire for all her help.

Sam Morris died on September 1st 2015, aged 83. Sam joined the Library of the British Museum after leaving school at the age of 15, then did National Service in the RAF. He got a lateral transfer from the British Museum to the Department of Palaeontology of the British Museum (Natural History). He may have been the last person to do that before the two museums went their separate ways in 1963.

For three decades Sam was in charge of the curation of fossil arthropods in the then Department of Palaeontology. He became the friend and mentor of many scientists during that period, and cultivated a comprehensive knowledge of the bibliography pertaining to 'his' collections. Any specimen that was scientifically studied between the early 1960s until his retirement in 1992 is guaranteed to have been meticulously curated in the old registers, and labelled in Sam's tiny, but always legible script in the appropriate drawer. He acquired a particular expertise in fossil crustaceans, especially crabs, on which he published widely, including with his friend Joe Collins. Other notable collaborations were with Richard Fortey and Ron Tripp on trilobites. Up until very recently Sam was still working on fossil crustaceans that he had collected from the Forest of Dean and his paper with Neil Clark (University of Glasgow) on a new genus was recently published in the *Journal of Systematic Palaeontology* (Clark *et al.*, 2015; DOI: 10.1080/14772019.2015.1096848). He worked for W.T. (Bill) Dean before 1970, after which Richard Fortey took over as head of the Arthropod Section for the rest of Sam's career. At that time, the publication of catalogues of type and figured specimens was encouraged, and virtually all the fossil arthropods have a published catalogue compiled by Sam. His bibliographical monument is a massive summary of virtually all work on British trilobites, published by the Palaeontographical Society in 1988. No detail was too small to escape his attention, and there may be no better example of why the library is so important to the scholarly reputation of the Museum. Even today, with all the resources of the Web, no worker on this diverse group of extinct arthropods is without his or her copy of 'Morris'.

Sam was involved in early cataloguing of collections at the beginning of computerized curation at the Museum, an enthusiastic member of several natural history groups, including one recording bats, and an organizer of the famed 'Tetrapods' club. He was a former Treasurer of the Society. He was also a star in the annual Civil Service games - particularly as a sprinter - and played on the wing for Saracens RFC. He was a generous and kind colleague who earned the respect of many of his fellow palaeontologists.

S. K. Donovan  
Secretary  
January 2016

c/o Taxonomy and Systematic Group,  
Naturalis Biodiversity Center,  
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## PALAEONTOGRAPHICAL SOCIETY RESEARCH FUND REPORTS

### The British Devonian Crinoidea, Part 2

Fiona E. FEARNHEAD

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The research aim of this project was to collect material from Middle Devonian localities in south Devon known to produce crinoids, particularly Wolborough Quarry and Lummaton Hill (Donovan & Fearnhead, 2014, p. 10), and survey new sites. The outcome of fieldwork was the collection of over 30 kg of material varying from small samples to large slabs containing crinoid material.

**Lummaton Quarry location 1 (a). Industrial Business Park.** Whilst waiting for permission to collect from the SSSI (location 1 (b)), I explored the area surrounding, now partly infilled and occupied by several small businesses, including an open storage facility. A chain link fence is maintained in the area between the fence and the cliff face, to prevent encroachment. I managed to gain permission from Travers Perkins, UK timber and building merchants to collect from samples on their site, from the cliff face at rear of their car park and behind the fence, specimens that had fallen from the quarry cliff above. I collected 54 specimens from this site, just below the cliff of location 1 (b). Specimens included crinoid columnals, pluricolumnals, brachiopods preserved in calcite and as external moulds, and fenestrate bryozoans.

**Lummaton Quarry, location 1 (b). SSSI.** In addition to its importance as a fossil locality, the quarry is home to small rare blue butterflies and kidney vetch. Permission to collect was kindly granted by Phil Stocks, Land Management and Conservation Adviser, South Devon Team, Natural England. The quarry is inaccessible to the public as an SSSI and is kept locked. I took great care to avoid disturbing the wildlife whilst collecting and packing the rocks.

**Lummaton, location 1 (c).** I surveyed the surrounding area. However, the only new areas for collecting was close to the outside of the quarry, near the Cub Scout huts and where the edges of the quarry met the Sports Field. Specimens were collected.

**Wolborough Quarry, location 2.** Little remains of the outcrops described by Scrutton (1968, p. 185). The information I received was that this quarry is now part of Wolborough Fen, Decoy Country Park, situated on the edge of Newton Abbot. Most of the Country Park is either a County Wildlife Site (CWS) or a Site of Special Scientific Interest (SSSI). I collected specimens on the way to Abbotskerwell.

There was a dearth of Devonian crinoid material. However, I found an enigmatic, well preserved echinoid spine preserved as an external mould in a float cobble of chert. The cobble is here interpreted as an erratic, most probably an Upper Cretaceous flint, and the spine is identified as *Prionocidaris* sp. cf. *P. vendocinensis* (Agassiz & Desor), and described by Donovan & Fearnhead (2016).

## REFERENCES

- DONOVAN, S.K. & FEARNHEAD, F.E. 2014. *Monograph of the Palaeontographical Society*, **168** (643): 1-55+i-viii.  
DONOVAN, S.K. & FEARNHEAD, F.E. 2016 (in press). *Proceedings of the Yorkshire Geological Society*, **61**.  
SCRUTTON, C.T. 1968. *Bulletin of the British Museum (Natural History)*, Geology, **15**, 183-281.

## Thalattosuchian crocodylomorphs from the Kimmeridge Clay Formation

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Thalattosuchians were a successful group of crocodylomorphs that during the Jurassic-Cretaceous inhabited lagoonal-coastal ecosystems (teleosaurids) and even pelagic environments (metriorhynchids). The Middle-Late Jurassic boundary was a critical period for the evolution of this group because it marks a dramatic turnover in marine ecosystems. Thalattosuchians were particularly affected, especially in the UK formations. The predominant Callovian (late Middle Jurassic 165-163.5 Mya) thalattosuchians were piscivorous, small-bodied metriorhynchine metriorhynchids (e.g., *Metriorhynchus superciliosus* and *Gracilineustes leedsi*), and teleosaurids were relatively abundant (Andrews, 1913). Conversely, large bodied and macrophagous geosaurine metriorhynchids (e.g., *Dakosaurus*, *Geosaurus*, *Plesiosuchus* and *Torvoneustes*) became taxonomically and numerically preponderant in the Kimmeridgian and Tithonian (middle and late Late Jurassic, 157-145 Mya) (Young *et al.*, 2012). Metriorhynchines and teleosaurids were rare in the Late Jurassic of England. The decline of the latter in the Late Jurassic of the UK is particularly interesting as it contrasts with the fossil record of contemporaneous European units, where teleosaurids were more commonly found (Young *et al.*, 2014).

The funds received from the Palaeontographical Society enabled me to visit the Museum of Jurassic Marine Life (MJML, Kimmeridge, UK) – the Steve Etches Collection. This new institution, which will open during 2016, hosts material from the world-famous Kimmeridge Clay Formation (KCF, Kimmeridgian-Tithonian, c. 157–152 Mya). The purpose of this project was to study the undescribed specimens of the Etches' collection and the recognition of potential new species.

Preliminary results confirm the numerical dominance of geosaurines in the KCF with at least one representative of each Late Jurassic lineage, including the holotype of *Torvoneustes coryphaeus* (Young *et al.*, 2013), and diagnosable specimens of *Plesiosuchus*, *Dakosaurus* and *Geosaurus*. Detailed study of the material in the collection has also allowed identification of a likely undescribed new taxon.

The rarity of teleosaurids in the KCF was also confirmed. However, an individual osteoderm referable to *Machimosaurus* and the back of the skull of a smaller teleosaurid were identified in the collection. The fragmentary status of it does not allow a more precise identification at this stage. Hopefully, this information will fuel further research and new discoveries to better understand the paucity of teleosaurids in the Late Jurassic of UK.

All the thalattosuchians specimens in the Etches' collection have been studied, and will be extensively compared with other specimens hosted in UK and European institutions. It is hoped that the taxonomy of the potential new taxon will be determined. As the MJML is still under construction, it will not be possible to share the results until the official opening.

I gratefully thank the Palaeontographical Society for the financial support which enabled me to visit the collection. I am particularly grateful to Steve Etches for the hospitality, courtesy, assistance and discussions during the time spent in his collection. Finally, I wish to express my gratitude to my supervisors, Stephen L. Brusatte and Mark T. Young, for guidance and advice.

## REFERENCES

- ANDREWS, C.W. 1913. *A descriptive catalogue of the marine reptiles of the Oxford Clay – Part II*. British Museum, London.  
YOUNG, M.T., ANDRADE, M.B., ETCHES, S. & BEATTY, B.L. 2013. *Zoological Journal of the Linnean Society*, **169**, 820–848.  
YOUNG, M.T., BRUSATTE, S.L., ANDRADE, M.B., DESOJO, J.B., BEATTY, B.L., STEEL, L., FERNÁNDEZ, M.S., SAKAMOTO M., RUIZ-OMEÑACA, J.I. & SCHOCH, R.R. 2012. *PLoS ONE*, **7**(9), e44985.  
YOUNG, M.T., HUA, S., STEEL, L., FOFFA, D., BRUSATTE, S.L., THÜRING, S., MATEUS, O., RUIZ-OMEÑACA, J.I., HAVLIK, P., LEPAGE, Y. & ANDRADE, M.B. 2014. *Royal Society Open Science* **20141**, 140222.

CATALOGUE OF MONOGRAPHS  
PUBLISHED OR COMPLETED SINCE 2009

Volume 169 (for 2015) published November 2015 (£260.00)

644. **Smith, A.B.** British Jurassic regular echinoids, Part 1, Cidaroida, Echinothuroidea, Aspidodiadematoidea and Pedinoidea. 1-67, pls. 1-41. £160.00.  
645. **Wright, C.W. & Kennedy, W.J.** The Ammonoidea of the Lower Chalk, Part 6. 404-459, pls. 125-145. £100.00.

Volume 168 (for 2014) published October 2014 (£260):

642. **Smith, A.S. & Benson, R.B.J.** Osteology of *Rhomaleosaurus thorntoni* (Sauropterygia: Rhomaleosauridae) from the Lower Jurassic (Toarcian) of Northamptonshire, England (Complete). 40 pp., pls 1-35. £125.00.  
643. **Donovan, S.K. & Fearnhead, F.E.** The British Devonian Crinoidea. Part 1, introduction and Camerata. 1-55, pls 1-15. £135.00 .

Volume 167 (for 2013) published March 2014 (£240):

640. **Mohibullah Mohibullah, Williams, M. & Zalasiewicz, J.** Late Ordovician ostracods of the Girvan District, south-west Scotland (Complete). 40 pp., pls 1-6. £25.00.  
641. **Copestake, P. & Johnson, B.** Lower Jurassic Foraminifera from the Llanbedr (Mochras Farm) Borehole, North Wales, UK (Complete). 403 pp., pls 1-21. £215.00.

Volume 166 (for 2012) published November 2012 (£240):

638. **Donovan, S.K., Widdison, R.E., Lewis, D.N. & Fearnhead, F.E.** The British Silurian Crinoidea, Part 3, addendum to Parts 1 and 2, Camerata and columnals. 135-259, pls 37-62, final part. £115.00.  
639. **Smith, A.B. & Wright, C.W.** British Cretaceous Echinoids, Part 9, Atelostomata, 2. Spatangoida (2). 635-754, pls 210-253, final part. £125.00.

Volume 165 (for 2011) published December 2011 (£230):

637. **Evans, D.H.** The Lower Ordovician cephalopod faunas of the Durness Group, north-west Scotland (Complete). 131 pp., pls 1-15. £140.00.  
636. **Lamsdell, J.C.** The eurypterid *Stoermeropterus conicus* from the Lower Silurian of the Pentland Hills, Scotland (Complete). 84 pp., pls 1-15. £90.00.

Volume 164 (for 2010) published December 2010. £230, complete.

635. **Donovan, S.K., Widdison, R.E., Lewis, D.N. & Fearnhead, F.E.** 2010. The British Silurian Crinoidea. Part 2, Addendum to Part 1 and Cladida. 47-133, pls 7-36. £105.00.  
634. **Hooker, J.J.** 2010. The mammal fauna of the early Eocene Blackheath Formation of Abbey Wood, London (Complete). 162 pp., pls 1-4. £125.00.

Volume 163 (for 2009) published December 2009. £210, complete:

633. **Edmunds, M.** 2009. A revision of the Lower Jurassic ammonite genus *Eoderoceras* Spath and its immediate descendants and other relatives (Complete). 89 pp., pls 1-40. £140.00.  
632. **Donovan, S. K., Lewis, D. N., Fearnhead, F. E. & Widdison, R. E.** 2009. The British Silurian Crinoidea. Part 1, Introduction and Disparida. 1-45, pls 1-6. £70.00.

PALAEONTOGRAPHICAL SOCIETY

Established 1847

Registered Charity No. 228372

ANNUAL REPORT FOR 2014-2015

Volume 169 for 2015 appeared in October.

The Palaeontographical Society exists for the purpose of figuring and describing British fossils. It publishes monographs to this end; these may be restricted geographically, stratigraphically or palaeontologically. Intending contributors may obtain a copy of the Society's 'Notes for Authors' from the Secretary, Editor or directly from the Society website ([www.palaeosoc.org](http://www.palaeosoc.org)).

An Annual Volume is published, consisting of a number of complete monographs or individual part monographs.

Each person subscribing £35.00, each *bona fide* student subscribing half that amount, and each Institution subscribing £135.00 (£280.00 via an agency), is considered a Member of the Society and is entitled to the volume issued for the year to which the subscription relates. Subscriptions are considered due on 1<sup>st</sup> January of each year. Applications for membership (and renewals) can be completed online ([www.palaeosoc.org](http://www.palaeosoc.org)) or via the Treasurer ([tmcm@bgs.ac.uk](mailto:tmcm@bgs.ac.uk)).

Many monographs are not now available in original print, but some out-of-print monographs have been reprinted, most recently by the Cambridge University Press. Full details of the reprinted publications may be obtained from the Society website. Many monographs are also available in micro-edition (5x3) as diazo or as silver halide microfiche from Microform Ltd., Main Street, East Ardsley, Wakefield, Yorkshire WF3 2JN.

Published volumes, monographs or individual parts may be obtained through the Society website ([www.palaeosoc.org](http://www.palaeosoc.org)). Members of the Society are entitled to a minimum 50% discount on all publications. Published prices do not include postage and packing.

Thanks to the generosity of the publishers, a set of volumes up to 1972 of the *Treatise of Invertebrate Paleontology*, editor R.C. Moore, is available for Members' reference in the D.M.S. Watson Library, University College, London.

**Secretary:** Dr. Stephen K. Donovan, Taxonomy & Systematics Group, Naturalis Biodiversity Center, Postbus 9517, 2300 RA Leiden, The Netherlands.

January 2016

# REPORT OF THE COUNCIL

for the year ended 31<sup>st</sup> December 2014

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Read and adopted at the 168<sup>th</sup> Annual General Meeting held in the Neil Chalmers Seminar Room of the Natural History Museum on the afternoon of 15<sup>th</sup> April 2015, Professor Paul M. Barrett, The President, in the Chair.

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Volume 167 (for 2013) was published in March 2014, comprising the following parts:

**Vol. 167 (for 2013), 2014 (£240.00)**

640. Late Ordovician ostracods of the Girvan District, south-west Scotland, by Mohibullah Mohibullah, M. Williams & J. Zalasiewicz (pp. 1-40 pp., plates 1-6, complete, £25.00).
641. Lower Jurassic Foraminifera from the Llanbedr (Mochras Farm) Borehole, North Wales, UK, by P. Copestake & B. Johnson (pp. 1-403, plates 1-21, complete, £215.00).

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**Vol. 168, 2014 (£260.00)**

642. Osteology of *Rhomaleosaurus thorntoni* (Sauropterygia: Rhomaleosauridae) from the Lower Jurassic (Toarcian) of Northamptonshire, England, by A.S. Smith & R.B.J. Benson (pp. 1-40, plates 1-35, complete. £125.00).
643. The British Devonian Crinoidea, Part 1, Introduction and Camerata, by S.K. Donovan & F.E. Fearnhead (pp. 1-55, plates 1-15. £135.00).

The first Palaeontographical Society Medal was awarded to Professor W. James Kennedy (University of Oxford). Two Richard Owen Research Fund awards were made in 2014, to Daniel J. Delbarre (University of Oxford) to study the stem acanthomorph teleost *Aulolepis* from the Chalk and Jens Lehmann (University of Bremen) for his work on Lower Greensand Ammonoidea. The Edward Forbes Prize was not awarded in 2014. The Society provided support for the Lyell Meeting, entitled “Deep sea chemosynthetic ecosystems: where they are found, how they work and what they looked like in the geological past”, at Burlington House in March.

During the year, £6,375.00 was received from the sales of back-stock held by the Society. The balance shown in the Statement of Accounts stands at £56,590.12. The Income and Expenditure Account for 2014 is annexed.

The Eighth Annual Address of the Society was delivered by Mr. Richard P. Edmonds (Jurassic Coast World Heritage Site Team, County Hall, Dorchester, Dorset) on “The Jurassic Coast; fossils, history, value and management”. Wednesday, 16<sup>th</sup> April, 2014 at the Natural History Museum.

## COUNCIL 2015–2016

Following the Annual General Meeting, held on Wednesday, 15<sup>th</sup> April 2015, Dr. D. Loydell retired as Vice-President and Dr. B.M. Cox retired as senior editor. B.M. Cox was elected as a new Vice-President and Dr. P.R. Crowther was elected as a new Editor. Dr. Candela were re-elected as Editor, Dr T. McCormick was re-elected as Treasurer and Dr. S.K. Donovan was re-elected as Secretary. Dr. T. Dunkley-Jones and Dr. M.J. Simms retired from Council. Dr. N. Ainsworth and Dr. J.P. Botting were elected as new members of Council.

<b>President</b>	Dr. P.M. Barrett
<b>Vice-Presidents</b>	Dr. M. Munt and Dr. B.M. Cox
<b>Treasurer</b>	Dr T. McCormick
<b>Secretary</b>	Dr S.K. Donovan
<b>Editors</b>	Dr Y. Candela and Dr. P.R. Crowther
<b>Marketing Manager</b>	Ms E. Bernard
<b>Other Members</b>	Dr. N. Ainsworth, Dr. J.P. Botting, Dr. A. Butcher, Professor Susan Evans, Dr. Fiona E. Fearnhead, Professor P. Kenrick, Mr. D.J. Ward.

Income and Expenditure Account for the Financial Year 2014 (year ending 31/12/2014)

	2014	2013	2012
<b>Income (£)</b>			
Members subscriptions <sup>1</sup>	£22,267.23	£17,976.42	£21,663.51
Stocks and shares dividends	£6,197.57	£7,551.64	£3,913.53
GW Young bequest	£9,925.60	£0.00	£399.41
Backstock sales	£6,375.00	£8,149.90	£2,773.22
Interest from deposit accounts	£79.56	£86.65	£129.33
Donations	£14.00	-	-
PayPal Account Confirmation	£0.01	-	-
Returned refunds	£21.00	-	-
Reclaimed tax	-	-	-
	<b>£44,879.97</b>	<b>£33,764.61</b>	<b>£28,879.00</b>
<b>Expenditure (£)</b>			
Vol 168 origination, printing, post & packing	£20,002.24	-	-
Vol 167 origination, printing, post & packing	£38,938.87	-	-
Vol 166 origination, printing, post & packing	-	£34,668.29	-
Vol 165 origination, printing, post & packing	-	-	£25,076.82
Printing Annual Report <sup>2</sup>	£210.68	£248.39	£244.05
Administrative expenses incl NHM postage	£1,968.68	£2,005.73	£1,932.73
Bank charges	£94.25	£97.50	£91.00
Annual address	£72.20	-	-
Returned cheques / refunds	£576.75	£684.00	-
Donation to Lyell Symposium	£500.00	£500.00	£250.00
Donation to A Smith Woodward Meeting	-	£500.00	-
Research Fund grants	£1,050.00	£750.00	£1,480.00
Palaeontographical Society medals	£3,661.21	-	-
Website design and maintenance	£71.94	-	-
Subscription to M&G Charfund	-	-	£5,000.00
	<b>£67,146.82</b>	<b>£39,453.91</b>	<b>£34,074.60</b>
<b>Liabilities arising in 2014 and falling due in 2015</b>			
Administrative expenses incl NHM postage	£1,335.21	-	-
<b>Balance C/F (from last account)</b>	<b>£80,193.18</b>	<b>£85,913.58</b>	<b>£91,109.18</b>
<b>Income (from above)</b>	<b>£44,879.97</b>	<b>£33,764.61</b>	<b>£28,879.00</b>
	<b>£125,073.15</b>	<b>£119,678.19</b>	<b>£119,988.18</b>
<b>Expenditure (from above)</b>	<b>£67,146.82</b>	<b>£39,453.91</b>	<b>£34,074.60</b>
<b>Balances on 31/12:</b>			
Current Deposit	£16,194.35	£14,944.21	£21,201.44
Deposit	£39,734.02	£64,655.46	£64,568.81
PayPal <sup>3</sup>	£1,996.96	£593.51	£143.33
	<b>£125,072.15</b>	<b>£119,647.09</b>	<b>£119,988.18</b>
<b>Income over expenditure</b>	<b>-£22,266.85</b>	<b>-£5,689.30</b>	<b>-£5,195.60</b>
<b>Adjusted balance C/F to following year<sup>4</sup></b>	<b>£56,590.12</b>	<b>£36,531.97</b>	<b>£51,245.29</b>

Schedule of Investments and Income for 2014

	Cost (£)	Market Value (£)	2014 Income (£)
<b>Wide Range</b>			
8261 units M&G Charfund <sup>5</sup>	£62,645.78	£118,808.05	£4,158.65
2565 units M&G Fund of Investment	£1,187.70	£43,741.20	£264.06
868 Shires Income plc, 50p ordinary shares	£910.51	£2,180.85	£104.16
5920 Securities Trust of Scotland plc ordinary shares, 25p	£655.27	£8,383.90	£216.08
	<b>£65,399.26</b>	<b>£173,114.00</b>	<b>£4,742.95</b>
<b>SR Units</b>			
3126 21 CQIF Charity, Invest Inc	£20,061.55	£38,089.12	£1,454.62
<b>Total Investments</b>	<b>£85,460.81</b>	<b>£211,203.12</b>	<b>£6,197.57</b>
<b>Total Income from Investments</b>			<b>£6,197.57</b>
<b>Deposit Accounts Interest</b>			<b>£79.56</b>
<b>Total from Interest and Investments</b>			<b>£6,277.13</b>
<b>Income from Bulman Fund (extracted from above account)</b>			
719.69 units M&G Charfund	£7,807.77	£10,350.44	£362.30
639 units M&G Charfund	748.91	£9,189.97	£321.68
	<b>£8,556.68</b>	<b>£19,540.41</b>	<b>£683.97</b>

I have examined the above account, have compared it with the vouchers, books and records presented to me, and find it to be correct.



Dr. S.G. Molyneux, Examiner

Notes to Accounts

- Subscriptions are accounted for in the year in which they are credited to the current account.
- Annual report figure includes annual report printing, membership form printing, and newsletter printing.
- The PayPal account balance for end 2013 has been revised from the last statement.
- Adjusted Balance represents actual amount carried forward in current and deposit accounts (on 31/12/2014) minus liabilities due on this figure.
- M&G Charfund units include 1106 units purchased 20/01/2004 for £12,000, 817 units purchased 30/08/2006 for £12,000, 717 units purchased 03/02/2010 for £7500, 1752 units purchased 16/04/2010 for £20,000, 257 units purchased 05/05/2011 for £3000 and 413 units purchased 31/12/2012 for £5000.

## **Independent Examiner's report to the Trustees of the Palaeontographical Society**

I report on the accounts of the Palaeontographical Society for the year ending 31 December 2014.

### **Respective responsibilities of trustees and examiner**

The charity's trustees are responsible for the preparation of the accounts. The charity's trustees consider that an audit is not required for this year under section 144(2) of the Charities Act 2011 (the 2011 Act) and that an independent examination is needed.

It is my responsibility to:

- examine the accounts under section 145 of the 2011 Act;
- to follow procedures laid down in the General Directions given by the Charity Commission under section 145(5)(b) of the 2011 Act; and
- to state whether particular matters have come to my attention.

### **Basis of independent examiner's report**

My examination was carried out in accordance with the general Directions given by the Charity Commission. An examination includes a review of the accounting records kept by the charity and a comparison of the accounts presented with those records. It also includes consideration of any unusual items of disclosures in the accounts, and seeking explanations from you as trustees concerning any such matters. The procedures undertaken do not provide all the evidence that would be required in an audit and consequently no opinion is given as to whether the accounts present a 'true and fair view' and the report is limited to those matters set out in the statement below.

### **Independent examiner's qualified statement**

The trustees have prepared receipts and payments accounts, but a minor yet unexplained discrepancy arises between the balances (i.e. balance carried forward from 2013 plus income in 2014 versus expenditure in 2014 plus closing balance in 2014). Furthermore, the PayPal account balance for end 2013 has been revised from the last statement, which means that the closing figures for 2013, shown as balancing on the accounts for that year, are now unequal. Even though minor, I draw these discrepancies, which appear to be related to the PayPal account, to the trustees' attention.

In connection with my examination, no other matter except that referred to in the above paragraph has come to my attention:

(1) which gives me reasonable cause to believe that in any material respect the requirements:

- to keep accounting records in accordance with section 130 of the 2011 Act; and
- to prepare accounts which accord with the accounting records and comply with the accounting requirements of the 2011 Act

have not been met; or

(2) to which, in my opinion, attention should be drawn in order to enable a proper understanding of the accounts to be reached.

**Name:**   
Dr Stewart G. Molyneux

**Address:** British Geological Survey, Keyworth, Nottingham NG12 5GG, U.K.

**Date:** 10 April 2015