Notice of Annual General Meeting and Annual Address

The 173rd Annual General Meeting will be held in the Neil Chalmers Seminar Room of the Natural History Museum, London, SW7 5BD, on Wednesday, 22nd April, 2020, at 4.00 pm. The Annual Report of Council will be presented, along with the Income and Expenditure Accounts for the year ended 31st December, 2019, 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 Fourteenth Annual Lecture, to be given by Emeritus Professor Derek J. Siveter (University of Oxford). 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 36

1. Publications: Volume 172 (parts 651 and 652 for 2018) were published in March and April 2019, respectively. Volume 173 (parts 653 to 655) were published in August, November and December 2019, respectively.

Vol. 172, for 2018

- 651. British Silurian myodocope ostracods, by V. Perrier, D.J. Siveter, M. Williams & D. Palmer (pp. 1-64, plates 1-17).
- 652. Llandovery brachiopods from England and Wales, by L.R.M. Cocks (pp. 1-262, plates 1-41).

Vol. 173, for 2019

- 653. The Early Jurassic Bivalvia from the Hettangian and Lower Sinemurian of south-west Britain, Part 3, by P. Hodges (pp.113-143, plates 11-14).
- 654. The Ammonoidea of the Upper Chalk, Part 1, by W.J. Kennedy (pp. 1-112, plates 1-37).
- 655. Ostracoda from the Turonian of south-east England, Part 1, by I.J. Slipper (pp. 1-75, plates 1-9).

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 2020 were considered due on 1st January, 2020, and will entitle subscribers to Volume 174. Individual subscriptions are £35.00. The Student rate remains at half the individual rate, £17.50. There is a surcharge of £1.50 when subscriptions are paid through PayPal.

The Palaeontographical Society no longer offer Institutional or Agency rates. Institutions will now subscribe through Taylor & Francis at https://www.taylorandfrancis-renewals.informa.com/info.html.

You can renew your subscription online at https://www.palaeosoc.org/site/page/membership/renewals/. Subscriptions can also 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 2020 is enclosed with this Newsletter. 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 2020 subscriptions form or visit the Society's website (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 (Dr Tim McCormick). His e-mail address is tmcm@bgs.ac.uk.

3. The Society's WebSite (www.palaeosoc.org) continues to be an effective tool for posting new information on the Society (including Members of Council, progress reports for Palaeontographical Society Research Grants and other announcements). The Society is also now on Facebook (<u>facebook.com/ThePalaeontographicalSociety</u>) and on Twitter (<u>twitter.com/palaeonto_soc</u>). Both can be found through the Palaeontographical Society website.

The Palaeontographical Society's online shop has now been closed. The monographs of the Palaeontographical Society can be located and brought from Taylor and Francis via a portal on our website (see also Point 9).

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 our website or contact the Secretary (Dr Nigel R. Ainsworth at nigelainsworth@btinternet.com) for further information. The next closing date for applications is 28th February, 2020, and the successful applicant(s) will be announced at the AGM. One grant was awarded in 2019:

Professor P.M. Barrett and Dr S. C.R. Maidment (Natural History Museum, London). Osteology and Interrelationships of *Cumnoria prestwichii* (Ornithishcia, Ornithipoda) from the Upper Jurassic of Oxfordshire, UK.

Reports on two of the projects (one from 2018 and the above one from 2019) appear below.

- 5. The Edward Forbes Prize: The Society invites applications for the Edward Forbes Prize, which aims to recognize 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. The Edward Forbes Prize was presented in 2019 to:
 - Dr B. Moon (University of Bristol) for his joint publication in the *Monographs of the Palaeontographical Society* (2018, Publication Number 650, Volume 172, Part 1, pp. 85-176, pls. 31-40) entitled the "Ichthyosaurs of the British Middle and Upper Jurassic, Part 2, *Brachypterygius, Nannopterygius, Macropterygius* and Taxa invalida".

We invite submissions for the 2020 award on the basis of any eligible article that was published in 2019. Applications should be addressed to the Secretary (<u>nigelainsworth@btinternet.com</u>) and must be received by the closing date of 28th February, 2020. 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 an award, the Palaeontographical Society Medal, which is intended to recognize a sustained and important series of contributions to taxonomic and systematic palaeontology. It is presented once in any two year period. In particular, the Society seeks to honour those who have made an exceptional contribution to the micropalaeontology, palaeobotany, 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 fourth award will be made at the Annual General Meeting in April 2020 to Professor Jennifer A. Clack (University of Cambridge).

The Council of the Society welcomes nominations and suggestions for future recipients of the Medal. Please contact the Secretary (nigelainsworth@btinternet.com).

- 7. Society Archives: Members of the Society wishing to view the archives of the Palaeontographical Society should write to the Secretary (nigelainsworth@btinternet.com).
- **8. Annual Address:** The subject of the Fourteenth Annual Address is "The Herefordshire Lagerstatte: A remarkable window into Silurian marine life". This year's speaker is Emeritus Professor Derek J. Siveter from the University of Oxford.

The Herefordshire Lagerstätte is an exceptional fossil deposit of mid-Silurian age (about 430 Ma) in the Anglo-Welsh Basin. The fossils are hosted in nodules in a volcaniclastic layer and are richly represented by soft-bodied invertebrates. These are exquisitely preserved in the round and are mostly studied through use of physical-optical tomography. Digital images are combined by computer to reconstruct the animal as a three-dimensional virtual model that can be examined interactively on screen. The digital data can also be used to generate a physical model through rapid prototyping technologies. Soft-bodied fossils belonging to the Cambrian Period have been fundamental for our understanding of the early evolution of animal life during the 'Cambrian Explosion' event. However, soft-bodied faunas from the Silurian are almost entirely unknown, and the Herefordshire fossils are contributing much to our understanding of the palaeobiology and early history of the wide variety of invertebrate groups represented.

9. Change to the Publication of the Monographs: The Palaeontographical Society self-published the monograph series since its inception, but in order to broaden their distribution and to ensure the continued financial health of the Society, the Society entered into a new partnership with Taylor & Francis, commencing in 2018. Taylor & Francis will print and distribute the monographs, but the Society will retain copyright and editorial control over content. The resulting product looks essentially the same, but will also be available in PDF format, as well as print. Members will receive a print copy by default and access to the monographs via Taylor & Francis' online platform. In addition, we have increased the numbers of issues from two to three each calendar year. An earlier agreement regarding the reprinting of out-of-print monographs, which was conducted in conjunction with Cambridge University Press, has been terminated.

Monographs of the Palaeontographical Society are located on the Taylor & Francis website at http://www.tandfonline.com/toc/tmps20/current.

10. Nominations for Council: The Palaeontographical Society is open for nominations to serve on Council for 2020–2023. 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 the needs of the membership. Any member of the Society can nominate a candidate and names will be considered at the AGM. Members can nominate a candidate by sending an e-mail to the Secretary (nigelainsworth@btinternet.com) together with a statement from the candidate that he/she is willing to be considered. A proposer and seconder are required, who must be current members of the Society.

11. New members: We extend a warm welcome to the following recent new members of the Society: Wayne Braunberger; Paul Davis; Kevin Knell and Imran Rahman.

N.R Ainsworth Secretary January 2020 c/o 39 De Tany Court, St. Albans, Hertfordshire, AL1 1TU.

PALAEONTOGRAPHICAL SOCIETY RESEARCH FUND REPORTS

The British Wealden Supergroup ankylosaurs

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Ankylosaurs, a group of armoured dinosaurs characterised by the possession of extensive body armour, were a significant component of terrestrial ecosystems from the Middle Jurassic to the end of the Cretaceous. They diversified during the Early Cretaceous and became globally widespread. The Lower Cretaceous Wealden Supergroup (Berriasian – Aptian) of Britain has produced numerous ankylosaur body fossils, and three taxa have been named: *Hylaeosaurus armatus*, from the Grinstead Clay Formation of West Sussex, *Polacanthus foxii*, from the Wessex and Vectis Formations of the Isle of Wight, and *Horshamosaurus rudgwickensis*, from the Wessex Formation of West Sussex. Despite their historical significance, with *Hylaeosaurus* being an original member of the Dinosauria (Owen 1842), these taxa are surprisingly poorly understood. Initial descriptions of *Hylaeosaurus* and *Polacanthus* during the 1800s (Mantell 1833; Anonymous 1865) and subsequent referral of specimens based on provenance, rather than morphological comparisons, has meant there has been much confusion over what specimens, and thus what material, is from each taxon.

This project has investigated the anatomy and taxonomy of the British Wealden ankylosaurs. The holotypes of *Hylaeosaurus* and *Polacanthus* have been morphologically described for the first time in the cladistic era, and every specimen of ankylosaur from the Wealden Supergroup has been taxonomically reassessed. Both *Hylaeosaurus* and *Polacanthus* represent valid and distinct ankylosaur taxa, from distinct geographical and stratigraphical locations, and they have been rediagnosed with robust autapomorphies, although both are restricted to the type specimens. '*Horshamosaurus rudgwickensis*' is found to be a *nomen dubium* and an indeterminate nodosaurid ankylosaur, given the lack of robust autapomorphies in the holotype and only known specimen.

This work has formed part of my PhD on the armoured dinosaurs, and it would not have been possible without the support from the Richard Owen Fund. This enabled me to visit museums across Britain, including Bristol, Bexhill, Cambridge and Horsham, as well as an extended stay at Dinosaur Isle on the Isle of Wight. This work is in the final stages of being prepared as a manuscript for publication. I thank the Palaeontographical Society for awarding me the Richard Owen Fund to fund this project and also thank the many curators who have allowed access to their collections.

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MANTELL, G. A. 1833. *The Geology of South East England*. Longman, Rees, Orme, Brown Green and Longman, London, 415 pp.

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Osteology and Interrelationhips of *Cumnoria prestwichii* (Ornithishcia, Ornithopoda) from the Upper Jurassic of Oxfordshire, UK

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The ornithopods are a clade of herbivorous 'bird-hipped' dinosaurs that include iconic taxa such as the second dinosaur ever described, *Iguanodon*, and the duck-billed hadrosaurs (Norman *et al.*, 2004). Ornithopods were a major component of Cretaceous ecosystems worldwide, but their fossil record in the Jurassic is restricted to small, basal forms and a few rare members of Iguanodontia (Norman *et al.*, 2004). One such taxon is *Cumnoria prestwichii* Hulke, 1880, from the lower Kimmeridge Clay of Oxfordshire. This single partial skeleton represents the only well-preserved ornithopod dinosaur from the Jurassic of western Europe (Weishampel *et al.*, 2004). As such, the taxon is pivotal for our understanding of the phylogeny and biogeography of Ornithopoda and the early origins and evolution of Iguanodontia.

Cumnoria was last described 40 years ago (Galton & Powell, 1980), prior to the widespread adoption of cladistic analyses applied to vertebrate palaeontology to quantitatively resolve relationships. Consequently, this and its initial description (Hulke, 1880) are poorly illustrated and fall short of the modern descriptive standards required for character scoring. The past 10 years have witnessed the description of many new ornithopod taxa from the Late Jurassic–Early Cretaceous (e.g., Gates et al., 2018; Xu et al., 2018; Bell et al., 2019; Párraga & Prieto-Márquez, 2019), which have a direct bearing on the systematics of Cumnoria. Finally, the advent of CT-scanning applied to palaeontology means that internal structures of the braincase and inner ear can be studied (e.g. Witmer & Ridgley, 2008), features that were not available to earlier workers. As a result of our study of Cumnoria, we will present a new, well-illustrated anatomical description, which will include the internal structures of the braincase, and we will use this data to include the taxon in the most recent phylogenetic analysis of non-hadrosaurian ornithopods (Xu et al., 2018), resolving its relationships.

With funding from the Palaeontographical Society's Richard Owen Research Fund, we travelled to the Oxford University Museum of Natural History to collect anatomical data on the holotype and only known specimen of *Cumnoria* in November 2019. During the trip, we scored the taxon into the most recent comprehensive phylogenetic analysis of ornithopods (Xu et al., 2018), and have run analyses to resolve its position. In March 2020, the braincase will be CT-scanned in the Natural History Museum's micro-CT scanner. We intend to submit the results of the study to the *Monographs of the Palaeontographical Society* in due course. We thank the Palaeontographical Society for making this study possible. We also thank Joe Bonsor for his assistance with data collection, and Hilary Ketchum for access to the specimen and taking the time to hand-carry the braincase to the Natural History Museum.

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CATALOGUE OF MONOGRAPHS PUBLISHED OR COMPLETED SINCE 2014

Volume 173 (for 2019) published August 2019:

653. **Hodges, P.** The Early Jurassic Bivalvia from the Hettangian and Lower Sinemurian of southwest Britain, Part 3, 113-143, pls. 11-14.

Volume 173 (for 2019) published November 2019:

Kennedy, W.J. The Ammonoidea of the Upper Chalk, Part 1, 1-112, pls. 1-37.

Volume 173 (for 2019) published December 2019:

655. Slipper, I.J. Ostracoda from the Turonian of south-east England, Part 1, 1-75, pls. 1-9.

Volume 172 (for 2018) published March 2019:

 Perrier, V., Siveter, D.J., Williams, M. & Palmer, D. British Silurian myodocope ostracods, 1-64, pls. 1-17.

Volume 172 (for 2018) published April 2019:

652. Cocks, L.R.M. Llandovery brachiopods from England and Wales, 1-262, pls. 1-41.

Volume 172 (for 2018) published November 2018:

 Moon, B.C. & Kirton, A.M. Ichthyosaurs of the British Middle and Upper Jurassic. Part 2, Brachypterygius, Nannopterygius, Macropterygius and Taxa invalida. 85-176, pls. 31-40.

Volume 171 (for 2017) published November 2017 (£280.00):

- 648. Wright, C.W. & Kennedy, J. The Ammonoidea of the Lower Chalk, Part 7, final part. 461-562.
- 649. **Hodges, P.** The Early Jurassic Bivalvia from the Hettangian and Lower Sinemurian of southwest Britain, Part 2. 65-111, pls. 7-10.

Volume 170 (for 2016) published November 2016 (£280.00):

- 646. **Smith, A.B.** British Jurassic regular echinoids, Part 2, Carinacea. 69-176, pls. 42-82, final part.
- 647. **Moon, B.J. & Kirton, A.M.** Ichthyosaurs of the British Middle and Upper Jurassic, Part 1, Ophthalmosaurus. 1-84, pls. 1-30.

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

- Smith, A.B. British Jurassic regular echinoids, Part 1, Cidaroida, Echinothuroida, Aspidodiadematoida and Pedinoida. 1-67, pls. 1-41. £160.00.
- Wright, C.W. & Kennedy, W.J. The Ammonoidea of the Lower Chalk, Part 6. 404-459, pls. 125-145.

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.
- 643. **Donovan, S.K. & Fearnhead, F.E.** The British Devonian Crinoidea. Part 1, introduction and Camerata. 1-55, pls 1-15.

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PALAEONTOGRAPHICAL SOCIETY Established 1847

Registered Charity No. 228372

ANNUAL REPORT FOR 2018–2019

Volume 172, Part 650 for 2018 only appeared in November.

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).

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, 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 1st January of each year. Applications for membership (and renewals) can be completed online (www.palaeosoc.org) or via the Treasurer (tmcm@bgs.ac.uk).

Many monographs are not now available in original print. Taylor & Francis are creating a full digital archive of the Monographs, with a number now available via their 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.

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 Nigel R. Ainsworth, 39 De Tany Court, St. Albans, Hertfordshire AL1 1TU, U.K.

January 2020

REPORT OF THE COUNCIL

for the year ended 31st December 2018

Read and adopted at the 172nd Annual General Meeting held in the Flett Lecture Theatre of the Natural History Museum, London, on the afternoon of 24th April 2019, Professor Stephen K. Donovan, The President, in the Chair.

Only the first part of Volume 172 (for 2018) was published in November 2018.

Vol. 172, 2018

650. Ichthyosaurs of the British Middle and Upper Jurassic. Part 2, Brachypterygius, Nannopterygius, Macropterygius and Taxa Invalida, by B.C. Moon & A.M. Kirton (pp. 85-176, pls. 31-40.

Three Richard Owen Research Fund awards were made in 2018, to Michela M. Johnson (University of Edinburgh) to study Jurassic Telosauroidea, Elizabeth Martin-Silverstone (University of Bristol) to study pterosaur remains from the Middle Jurassic of Skye, Scotland, and Thomas Raven (The Natural History Museum, London) to study British and Cretaceous Thyreophora. The Edward Forbes Prize was not awarded in 2018.

The biennial Palaeontographical Society Medal was awarded to Dr Robert M. Owens in 2018.

The Society provided support for the Lyell Meeting, entitled "Mass extinctions – understanding the world's worst crisis", at Burlington House in March.

During the year, £2894.82 was received from the sales of back-stock held by the Society.

The balance shown in the Statement of Accounts stands at £74220.49. The Income and Expenditure Account for 2018 is annexed.

At the Annual General Meeting, held on Wednesday, 18th April, 2018, Professor P.M. Barrett retired as President. Professor S.K. Donovan retired as Vice-President, and was elected as the new President. Professor P.N. Wyse Jackson was elected as a new Vice-President. Dr N.R. Ainsworth was re-elected as Secretary, Professor J. Francis was re-elected as Vice President, Dr T. McCormick was re-elected as Treasurer, Drs Y. Candela and P.R. Crowther were re-elected as Editors, Dr A. Butcher was re-elected as Web Manager, while Ms E. Bernard was re-elected as Publicity Officer. Dr J.P. Botting retired from Council. Ms E. Panciroli was elected as a new member of Council.

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COUNCIL 2019-2020

Following the Annual General Meeting, held on Wednesday, 24th April 2019, Professor J. Francis retired as Vice-President, and Drs L. McCobb and R. Sansom retired as Members of Council. Dr C.J. Buttler was elected as a new Vice-President, and Drs S. Giles and A. Liu were elected as new Members of Council. Professor S.K. Donovan was re-elected as President, Dr N.R. Ainsworth was re-elected as Secretary, Professor P.N. Wyse Jackson was re-elected as Vice President, Dr T. McCormick was re-elected as Treasurer, Drs Y. Candela and P.R. Crowther were re-elected as Editors, Dr A. Butcher was re-elected as Web Manager, while Ms E. Bernard was re-elected as Publicity Officer.

President Professor S.K. Donovan

Vice-Presidents Professor C.J. Buttler and Professor

P.N. Wyse Jackson

Treasurer Dr T. McCormick Secretary Dr N.R. Ainsworth

Editors Dr Y. Candela and Dr P.R. Crowther

Publicity OfficerMs E. BernardWeb OfficerDr A. Butcher

Other Members Professor J.A. Clack, Dr S. Giles, Dr

A. Liu, Dr B. Moon, Dr E. Panciroli

and Mr S. Wills