

Notice of Annual General Meeting and Annual Address

The 175th Annual General Meeting will be held in the lecture theatre of the Oxford University Museum of Natural History, Park Road, Oxford, OX1 3PW, on Tuesday, 26th April, 2020, at 4.30 pm. The meeting can also be viewed online via Zoom. The Annual Report of Council will be presented, along with the Income and Expenditure Accounts for the year ended 31st December, 2021, while Council Members and Officers will be elected for the ensuing year.

The AGM will be followed by the Society's Sixteenth Annual Lectures, to be given by Dr Susannah C. R. Maidment (the Natural History Museum, London) and followed by Dr Sandy Hetherington (University of Edinburgh). These lectures will be held in the lecture theatre of the Oxford University Museum of Natural History, commencing at approximately 4.45 pm. This event is open to members of the Society and other interested parties.

Drinks and canapes will be available after the AGM and Annual Lectures in the Oxford University Museum of Natural History between 6.00 pm and 7.00 pm in the Main Court. This meeting is open to all members of the Society.

NEWSLETTER 38

1. Publications: Volume 174 (parts 657 and 658) were published in February and May 2021 respectively. Volume 175 (part 657 to 658) were published in 2021. These delays have been due to the ensuing Covid pandemic.

Vol. 174, for 2020

- 657. Ostracoda from the Turonian of South-East England, by I.J. Slipper (pp. 47-168, plates 10-26).
- 658. The British Devonian Crinoidea, Part 2, Addendum to Part 1, Cladida, Disparida and columnals, by S.K. Donovan & F.E. Fearnhead (pp. 57-148, plates 16-29).

Vol. 175, for 2021

- 659. The Mammals of the Late Eocene – Early Oligocene Solent Group, Part 1, Introduction and Euarchonta: Nyctitheriidae, by J.J. Hooker (pp. 1-147, plates 1-48).

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 2022 were considered due on 1st January, 2022, and will entitle subscribers to Volume 176. 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 2022 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 2022 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) was relaunched with a new look in January and 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 ([facebook.com/ThePalaeontographicalSociety](https://www.facebook.com/ThePalaeontographicalSociety)) and on Twitter (twitter.com/palaeonto_soc). 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. The Richard Owen Research Fund: The Society 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 nigelaainsworth@btinternet.com) for further information. The next closing date for applications is 28th February, 2022, and the successful applicant(s) will be

announced at the AGM. Two grants were awarded in 2021:

Dr J.W. Atkinson (Keighley, West Yorkshire). To firstly describe and taxonomical reassess the British Veneridae bivalves, and secondly to detect their long-term evolutionary response to environmental change.

Dr D.D. Cashmore (School of the Earth, Geography and Geoscience, University of Portsmouth). 'Forgotten' footprints; understanding UK dinosaur macroecology.

With the ongoing restrictions to gain access to research materials in the various academic institutions throughout the UK due to the ongoing pandemic the reports from the research grant proposals for the last two years will be submitted in the 2023 Newsletter.

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 2021 to:

Dr M.M. Johnson (University of Edinburgh) for her joint publication in *Peer J* (2020, 8:e9808 DOI 10.7717/peerj.9808) entitled the "The phylogenetics of the Teleosauroida (Crocodylomorpha, Thalattosuchia) and implications for their ecology and evolution".

We invite submissions for the 2022 award on the basis of any eligible article that was published in 2021. Applications should be addressed to the Secretary (nigelainsworth@btinternet.com) and must be received by the closing date of 28th February, 2022. 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.

It is anticipated that the fifth Palaeontographical Society Medal will be awarded in April 2022. 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 subjects of the Sixteenth Annual Addresses comprise:

"The Stegosaurian Dinosaurs" by Dr Susannah C. R. Maidment from the Natural History Museum, London.

Stegosaurs are a group of dinosaurs characterized by the possession of two rows of plates and spines that extend from the neck to the end of the tail. They are known from the Middle Jurassic to the Early Cretaceous and have been found on all continents except Australia and Antarctica. Stegosaurs are part of a larger group of armoured dinosaurs, which also includes the ankylosaurs. Stegosaurs were four-legged plant-eaters and body mass estimates indicate they weighed about the same as a rhino. They were probably slow-moving, and not capable of running. They had very small teeth and do not appear to have chewed, but despite this, their bite forces indicate they could have eaten tough vegetation and small twigs. Several hypotheses have been put forward about the function of the plates of stegosaurs, but these have proven difficult to test. Different species appear to have had differently shaped plates, suggesting a role in display, and perhaps to deter predators. Two stegosaurs are known from North America: the iconic *Stegosaurus*, which is known from numerous skeletons from Colorado, Utah and southern Wyoming, and the less well-known *Hesperosaurus*, represented by just a few specimens from northern Wyoming and Montana. Both are known from the Morrison Formation, a suite of rocks laid down by rivers and on flood plains about 150 million years ago, and the two genera appear to have lived at the same time. Over 120 years of sampling in the south of the Morrison basin has failed to find any specimens of *Hesperosaurus* there, perhaps suggesting the two genera were ecologically segregated. Although stegosaurs are one of the most iconic dinosaurs, much remains unknown about their palaeobiology due to their sparse fossil record.

"The Rhynie chert in 3D, new insights into our oldest terrestrial ecosystem" by Dr Sandy Hetherington from the University of Edinburgh.

The Early Devonian Rhynie chert hot spring deposit has provided remarkable insight into early life on land since its discovery just over 100 years ago. The exceptional level of preservation with which organisms within the chert

are preserved makes it unique, allowing reconstruction of not only the plants and animals but also of a rich microbial community too. Despite 100 years of investigation the methods used to study the chert remain largely unchanged, consisting predominately of examination of surface features of cut slabs and studies of thin sections with transmitted light. These techniques have been remarkably illuminating but still leave plenty of the Rhynie ecosystem to be discovered. Advances in imaging methods and digital reconstruction software in the last decade are providing new tools to study the Rhynie chert. This new 3D view on the Rhynie chert promises to provide new insight on this key fossil locality. In the talk I will give an overview of some of the recent advances in our understanding of the Rhynie chert and explore how new techniques can reveal previously unknown features about the Rhynie ecosystem.

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 2022–2025. 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. Council positions will be advertised via Facebook ([facebook.com/The Palaeontographical Society](https://www.facebook.com/ThePalaeontographicalSociety)) and Twitter (@Palaonto_Soc). Candidates can apply for positions on Council by sending an e-mail to the Secretary (www.palaeosoc.org/contact-us), together with a paragraph about why you would be interested in becoming a Council Member. All nominations will need to be in by the 28th February, 2022.

11. New members: We extend a warm welcome to the following recent new members of the Society: Steve Alcock, Jed Atkinson, Susan Beardmore, Margaret Collinson, Sherri Donaldson, Sam Giles, Michela Johnson, William Kuehne, Alan Lord, Ronald McDowell, Emma Nicholls, Robert Ros, William Rutter, Wayne Sayers and Vivi Vajda.

N.R Ainsworth
Secretary
January 2022

c/o Cliff Bank, Sidmouth Road,
Lyme Regis,
Dorset,
DT7 3EP.

CATALOGUE OF MONOGRAPHS
PUBLISHED OR COMPLETED SINCE 2016

Volume 175 (for 2021) published December 2021

659. **Hooker, J.J.** The Mammals of the Late Eocene – Early Oligocene Solent Group, Part 1, Introduction and Euarchonta: Nyctitheriidae, 1-147, pls 1-48.

Volume 174 (for 2020) published May 2021:

658. **Donovan, S.K. & Fearnhead, F.E.** The British Devonian Crinoidea, Part 2, Addendum to Part 1, Cladida, Disparida and columnals, 57-148, pls 16-29.

Volume 174 (for 2020) published February 2021:

657. **Slipper, I.J.** Ostracoda from the Turonian of South-East England, 47-168, pls 10-26.

Volume 174 (for 2020) published September 2020:

656. **Kennedy, W.J.** The Ammonoidea of the Upper Chalk, Part 2, 113-232, pls 38-65.

Volume 173 (for 2019) published August 2019:

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

Volume 173 (for 2019) published November 2019:

654. **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:

651. **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:

650. **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 south-west 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.

PALAEONTOGRAPHICAL SOCIETY

Established 1847

Registered Charity No. 228372

ANNUAL REPORT FOR 2020–2021

Volume 172, Part 656 for 2020 only appeared in September.

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, Cliff Bank, Sidmouth Road, Lyme Regis, Dorset, U.K.

January 2022

REPORT OF THE COUNCIL

for the year ended 31st December 2020

Read and adopted at the 174th Annual General Meeting held via a Zoom Meeting, on the afternoon of the 27th May, 2021, Dr Stephen K. Donovan, The President, in the Chair.

Only the first part of Volume 174 (from 2020) was published in September 2020

Vol. 174, 2020

656. The Ammonoidea of the Upper Chalk. Part 2, by W.J. Kennedy (pp. 113-2323, plates 38-65).

Three Richard Owen Research Fund awards were made in 2020, to Juan Benito Moreno (University of Bath) to study the unravelling of modern bird origins using computerized tomography, Simon Penn (University of Portsmouth) to study the palaeontology of the Wealden Group of Dorset, England, and Elsa Panciroli (University of Oxford) and Stig Walsh (National Museums Scotland) to identify the mystery dinosaur footprint from Scotland. The Edward Forbes Prize was awarded to Dr S.W. Evers (University of Freiburg, Switzerland) for his joint publication entitled “Anatomy of *Rhinochelys pulchriceps* (Protostegidae) and marine adaption during the early evolution of chelonioids”, co-authored with Paul M. Barrett and Roger B.J. Benson.

The biennial Palaeontographical Society Medal was awarded to the late Professor Jennifer A. Clack University of Cambridge). Most sadly, Jennifer passed away on March 26th, 2020, before she could receive the Palaeontographical Society Medal, although the Society had made Jennifer aware of the award before her untimely death.

The Society was to sponsor a number of meetings during 2020. These, however, were all cancelled to the Covid pandemic.

The balance shown in the Statement of Accounts stands at £94764.22. The Income and Expenditure Account for 2020 is annexed.

Although no formal elections were convened due to the cancellation of the 173rd Annual General Meeting which was to be held on the Wednesday, 22nd April, 2020, three members of the Society stood down (Professor P.N. Wyse Jackson as Vice President, and Dr B. Moon and Mr S. Wills retired from Council), while unfortunately one member sadly passed away in office (Professor J. A. Clack). The Society has enlisted Professor S. Evans as the new Vice President and Drs N. L. Clark, L. Cotton and I. Rahman as three new ordinary members of Council.

Following the Annual General Meeting, held on Thursday, 27th May 2021, Dr S.K. Donovan retired as President, Dr C.J. Buttler retired as Vice-President while Dr Y. Candela retired as Editor. Dr C.J. Buttler was elected as the new President, Dr Y. Candela was elected as a new Vice-President. Dr N.R. Ainsworth was re-elected as Secretary, Professor S. Evans was re-elected as Vice President, Dr T. McCormick was re-elected as Treasurer, Dr P.R. Crowther was re-elected as an Editor, Dr A. Butcher was re-elected as Web Manager, while Ms E. Bernard was re-elected as Publicity Officer.

COUNCIL 2021–2022

President	Professor C.J. Buttler
Vice-Presidents	Dr Y. Candela and Professor S. Evans
Treasurer	Dr T. McCormick
Secretary	Dr N.R. Ainsworth
Editors	Dr S. Beardmore, Dr P.R. Crowther and Dr B.C. Moon
Publicity Officer	Ms E. Bernard
Web Officer	Dr A. Butcher
Other Members	Dr N. L. Clark, Dr L. Cotton, Dr S. Giles, Dr A. Liu, Dr E. Panciroli and Dr I. Rahman

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

I report on the accounts of the Palaeontographical Society for the year ending 31st December 2020.

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 of the Charities Act 2011 (the Charities Act) and that an independent examination is needed.

It is my responsibility to:

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

Basis of independent examiner's statement

My examination was carried out in accordance with 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 or disclosures in the accounts, and seeking explanations from the 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 statement

In connection with my examination, no matter 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 Charities Act; and
 - to prepare accounts which accord with the accounting records and comply with the accounting requirements of the Charities Acthave 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: 71 Mount Pleasant, Keyworth, Nottingham NG12 5EG, UK
Date: 20th May 2021

Income and Expenditure Account for the Financial Year 2020 (ending 31/12/2020)

Income (£)	2020	2019	2018
Members subscriptions ¹	£2,219.71	£3,125.85	£2,104.50
Stocks and shares dividends ²	£1,214.85	£12,246.62	£4,289.10
Backstock sales ³	-	-	£2,894.82
CUP royalties	-	£55.19	£62.63
Informa UK royalties	£5,643.49	£3,548.44	£2,000.00
Informa UK editors fund	£1,500.00	£1,500.00	£1,500.00
Refunded bank charges	£3.14	-	-
Returned 2017 R Owen award	£700.00	-	-
	£11,281.19	£20,476.10	£12,851.05

Expenditure (£)	2020	2019	2018
Vol 171 origination, printing, post & packing ⁴	-	-	£18,502.94
Annual Report printing & mailing	£104.17	£131.46	£240.90
Forbes Prize	£250.00	£250.00	-
R Owen research fund awards	£2,661.30	£430.00	£1,655.00
Palaeontographical Society medals	£29.34	-	£28.93
Donation to Crystal Palace Dinosaurs Appeal	-	£500.00	-
Donation to Progressive Palaeontology	-	£500.00	£500.00
Donation to SVPCA	-	-	£500.00
AGM / Annual Address	-	£513.13	£779.18
Administrative expenses ⁵	£549.16	£2,072.15	£2,646.30
Website expenses	£3,312.00	£191.88	-
	£6,905.97	£4,588.62	£24,853.25

		2020	2019	2018
Balances carried forward at year start:	Current A/C	£78,932.65	£63,980.14	£78,081.89
	PayPal	£11,456.35	£10,521.38	£8,421.83
Income (see above):		£11,281.19	£20,476.10	£12,851.05
		£101,670.19	£94,977.62	£99,354.77

		2020	2019	2018
Balances carried forward at year end:	Current A/C	£82,027.16	£78,932.65	£63,980.14
	PayPal	£12,737.06	£11,456.35	£10,521.38
Expenditure (see above):		£6,905.97	£4,588.62	£24,853.25
		£101,670.19	£94,977.62	£99,354.77

Income over expenditure:		£4,375.22	£15,887.48	-£12,002.20
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Schedule of Investments and Income for 2020

	Cost (£)	Market Value (£)	2020 Income (£) ²
Wide Range			
8262 units M&G Charifund	£62,645.78	£113,401.73	£0.00
57797.805 units M&G Managed Growth Fund	£1,187.70	£65,271.06	£0.00
868 units Shires Income PLC 50p ordinary shares	£910.51	£2,109.24	£0.00
5920 units Securities Trust of Scotland Ordinary Shares	£655.27	£12,224.80	£0.00
	£65,399.26	£193,006.83	£0.00
SR Units			
3126.21 COIF Charity, Invest Inc	£20,061.55	£57,058.65	£1,214.85
Total Investments	£85,460.81		
Total Income from Investments			£1,214.85
Income from Bulman Fund (extracted from above account)			
719.69 units M&G Charifund	£7,807.77	£9,878.25	£0.00
639 units M&G Charifund	£748.91	£8,770.72	£0.00
	£8,556.68	£18,648.97	£0.00

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
20th May 2021

Notes:

1. Subscriptions are accounted for in the year in which they are credited to the current account.
2. Owing to factors arising from the Covid-19 pandemic, dividends for some investments were not paid into the account during 2020, hence this income will be received in the following year.
3. The Society no longer sells backstock monographs.
4. The Society no longer pays for printing and fulfillment of the monographs.
5. The amount reflects reduced expenses during the pandemic.