

# Newsletter

## DIARY

### Trading Nature

SHNH Summer Meeting  
and AGM in association  
with the Geological  
Curators' Group

University of York  
York, UK

4–5 June 2019  
See page 14

Maritime Animals  
Telling Stories of  
Animals at Sea

National Maritime  
Museum London  
London, UK

25–27 April 2019  
See page 17

Collections in  
Circulation  
Mobile Museum  
International  
Conference

Royal Botanic Gardens,  
Kew London, UK

9–10 May 2019  
See page 18



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### CORRESPONDENCE ADDRESS

c/o The Natural History Museum, Cromwell Road, London, SW7 5BD, UK  
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## Expeditions and Endeavours See Item 20



Top: *Alectis ciliaris*, African pompano. Mungo Park (1771–1806). c.1793–94. Park first travelled to Sumatra in 1793 on board the *Worcester*, returning the following year with rare plants for Sir Joseph Banks, along with illustrations and notes on new fish species. Image courtesy of the Natural History Museum.

Left: *Aloe maculata*, soap aloë. Drawings of Cape plants collection. c.1685. Artist unknown. This illustration is from one of the earliest botanical illustration collections held at the NHM. Image courtesy of the Natural History Museum.

## New Year's Eve Dinner in an Iguanodon, 1853 See Item 34

Benjamin Waterhouse Hawkins (1807–1894) became famous for the dinosaur sculptures that he created for a great exhibition at the Crystal Palace in London. He hosted a famous dinner inside his life-size sculpture of an iguanodon. Several of the invitations that Hawkins extended to his guests have survived.



Invitation to the ornithologist and artist John Gould (1804–1881).



Invitation to the geologist Joseph Prestwich (1812–1896).

### 1. President's Message



Council has been very busy over the last year reviewing the Society's activities, membership and governance, considering the issues we currently face and measures we might take to deal with them. Following a wide-ranging discussion at Council in February 2018 regarding the formulation of a strategic plan for the Society, a small working group developed a detailed document that addressed our mission, purpose and aims, assessed our strengths and weaknesses, explored key challenges and opportunities, and formulated a list of priorities for action. Council discussed this detailed text at its meeting in May 2018 and further minor changes made as a result.

Having reached broad agreement on the way forward I felt it was important at this point to develop a Strategic Statement – a precis of the detailed document – to feature on the Society's website and in this *Newsletter* to make members aware of Council's decisions. At our meeting on 25 September 2018, this short Strategic Plan document was presented to Council, and after discussion and small amendments, it was agreed and signed by myself and the Honorary Secretary on Council's behalf. This short 'Strategic Statement' follows this introduction, and I would welcome any comments that members might have about it – I feel it is vital that this strategy is owned by the membership. Council members are now especially involved in delivering the strategy; Working Groups composed of Council members are looking at six key aspects of our activities that feature in the Strategic Plan, and I will report on progress in due course.

One issue that emerged very strongly from these discussions was membership. We do need to grow our numbers, and especially encourage younger people to join the Society. To make new members welcome we require a database of Society members that is updated regularly and can be made available to our promotion and membership team. Edinburgh University Press (EUP), who do a wonderful job with *Archives of Natural History*, also manage our membership database. Our annual meeting with EUP in October 2018 gave officers the chance to raise a long list of issues that had emerged during strategy discussions and been brought to the notice of Council. We were able to resolve many of these, raising issues about the Society's expectations, including how the EUP website functions and the need to have processes in place so that we could welcome new members, chase lapsed members, have access to 'real time' lists of members and encourage institutional subscribers to the journal. Our thanks go to EUP for being so open to these discussions and helping us to resolve some difficult issues.

On a lighter note, members will be delighted to read here details of the plans for the 2019 AGM in York. My thanks go to Jo Hatton and our local contact Helen Cowie for organising the programme and domestic arrangements for this meeting. I look forward to seeing you all there!

Peter Davis  
SHNH President

## SHNH Strategic Plan 2018–2021

### Mission, Purpose and Aims

- The Society is instituted for the historical and bibliographical study of all branches of natural history across all cultures.
- The Society shall promote the objects for which it was founded by the issue of publications and by such other means as the Council may from time to time direct.

### Strategic aims 2028–2021

- To improve our resilience by strengthening/widening our offer to engage more people in the history of natural history, attracting more members and so improving our financial position.
- To ensure the Society is well-managed, delivers the expectations of its members and achieves its charitable purpose.
- To re-invigorate and maintain links with the Natural History Museum which has been a key player in the history of, and support for, the Society.
- To promote links with like-minded organisations, especially with regard to increasing membership and joint conferences.
- To work closely with Edinburgh University Press in the publication of *Archives of Natural History*, and to develop a closer relationship regarding publicity, promotion and the management of the membership database.
- To review the awards currently offered by the Society, including the processes used for their promotion, implementation and funding.
- To explore the potential for more informal Society meetings/events to further networking, social connections and to engage new audiences.
- To review the guidelines/roles and the support given to the Society's International Representatives in order to strengthen their ability to organise events in their own countries to promote recruitment.
- To regularly monitor and review the performance of the Society and report back to the annual Autumn meeting of Council.

This document was approved by the Council of the Society for the History of Natural History on 25 September 2018.



## 2. From the Editor

We are delighted to announce that our next meeting #SHNH2019 will be held jointly with the Geological Curators' Group (@OriginalGCG). The conference's theme is on 'Trading Nature' and will examine the role of agents, dealers and other enterprises in the History of Natural History. The call for papers has recently been concluded and Jo Hatton reports that she has received many excellent contributions. Please check our website <https://shnh.org.uk> for updated details on the programme and how to register.

Some Council Members will be retiring at our AGM. Council invites nominations from our membership. More information can be found on page 43.

Council is delighted to announce that the winner of the Thackray Medal is Past President David Mabberley for his outstanding publication *Painting by numbers: the life and art of Ferdinand Bauer* (NewSouth Publishing, 2017). Congratulations are also due to David who has been awarded a DSC *honoris causa* by Macquarie University – a fitting recognition of his work in botany worldwide.

Many congratulations too to Jim Endersby who has been awarded the Watson Davis and Helen Miles Davis Prize for the best book for a general audience by the international History of Science Society. His engaging and insightful book *Orchid: a cultural history* (Chicago University Press, 2016) documents the enduring cultural and scientific allure of the orchid and offers "a history of science that is simultaneously authoritative, accessible, and as enthralling as its subject matter".

It is now also time to be thinking about nominations for the Thackray Medal 2019. For more information and to see past medal winners, please see the SHNH website under "awards" or complete the form at the end of the newsletter.

The winner of the 2018 William T.

Stearn Student Essay Prize is Carissa Chew, University of Edinburgh, for her essay titled "Orientalism and the ant: empire, race and myrmecology". Students please note that we are also now inviting submissions for the 2019 William T. Stearn Student Essay Prize Competition. For more information and to see past winners, please see the SHNH website under "awards".

We are sad to have lost our good friend and colleague David Moore and Mark Carine writes about his life and his significant contribution to the field of Natural History.

I should like to thank everyone for their contributions to Newsletter. I encourage you to send in news items also for our Facebook and Twitter (@SHNHSocNatHist) feeds. Please also send notes of your own publications and on books you have enjoyed and would like to recommend to our membership.

I wish you all an enjoyable 2019 and look forward to catching up with a number of you at our meeting in June.

*Elaine*

Elaine Shaughnessy

## Society News & Announcements

### 3. Founders' Medal

Founders' Medals are awarded to persons eminent in the fields of the history and/or bibliography of natural history. The 2018 Founders' Medal was awarded to Professor Kraig Adler, Professor of Biology Emeritus at Cornell University (see SHNH NL 114, item 4, p. 2, 2018). Professor Adler was presented with his medal at the SSAR – Society for the Study of Amphibians



and Reptiles – Business Meeting on July 14 in Rochester, New York by Aaron M. Bauer, Professor and Gerald M. Lemole Endowed Chair in Integrative Biology Department of Biology at the Villanova University, Pennsylvania.

#### 4. John Thackray Medal 2018



The Adjudicators of the Society's Thackray Medal are pleased to announce that they have awarded the prize to David Mabberley for his *Painting by numbers: the life and art of Ferdinand Bauer* (Sydney, NewSouth Publishing, 2017, ISBN: 978-174223 5226).

It is a marvellous work that has answered, with great conviction, a long standing unanswered question. How did Bauer manage to achieve, in his final finished works, such beautiful colour accuracy, given that some of his field sketches had been made many years previously? The answer is, as one of the panel members pointed out, that Bauer “annotated his field drawings with a colour-coding system of up to a thousand different shades”.

David Mabberley compared unfinished drawings in Vienna with finished works in the Natural History Museum to show, in the “most compelling way”, how Bauer achieved this. Moreover, as one of the other judges stated, not only did he solve this conundrum, the work is a “unique source of accumulated information on Bauer's life, art and field work during expeditions, viewed against the artistic techniques of his time”. The result is a “lavishly produced work with superb colour reproductions” which is also very clearly written and accessible.

#### 5. John Thackray Medal 2019

The Thackray Medal was instituted in 2000 to commemorate the life and work of John Thackray, a past President and Secretary of the Society. It is awarded for significant achievement in the preceding three years in the history of those areas of interest to the Society, that is the biological and earth sciences in the broadest sense.

Nominations for the 2019 award are invited from individuals using the nomination form at the end of this Newsletter or on the website. Please include a brief statement on the nature of the significant achievement involved and describe how the Prize Committee can obtain supporting evidence, such as publication details or photographs of exhibitions, etc. Nominations should be sent to the Honorary Secretary by email ([secretary@shnh.org.uk](mailto:secretary@shnh.org.uk)), with an accompanying letter. The deadline for submissions is 31 July 2019. The rules governing the award of the John Thackray Medal may be accessed on our website at:

<https://shnh.org.uk/awards-honours-medals/john-thackray-medal/>.

#### 6. William T. Stearn Student Essay Prize 2018

We are delighted to announce that the winner of the 2018 William T. Stearn Student Essay Prize is Carissa Chew, University of Edinburgh, for her essay titled “Orientalism and the ant: empire, race and myrmecology”.

Carissa's thesis concerns the apparently paradoxical views of the Victorians that the biology of tropical ants, particularly the structure and organisation of their populations, could be interpreted both as positive and negative factors in support of British imperialism. On the positive side, ant societies could be taken to model civilised societies with clear evidence that ants were well organised and very

hard working – desirable ‘English’ characteristics. On the negative side, ants could be seen to be aggressive, ruthless and a threat to humankind – perceived features of ‘Other’ non-English races. Intertwined in the argument is the concept of Orientalism, the view that the inhabitants of the East are inferior to those of the West, and represent an ‘Otherness’, justifiably subjugated in the imperialism of an expanding British Empire.

### **7. William T. Stearn Student Essay Prize 2019**

The William T. Stearn Student Essay Prize was instituted in honour of the late William T. Stearn, a scholar whose work contributed much to the field and to this Society. We are inviting submissions for the 2019 William T. Stearn Student Essay Prize Competition, for an original, unpublished essay in the field of history of natural history.

The competition is open to undergraduate and postgraduate students in full or part-time education. Entry is not limited to members of SHNH. Entries will be considered by a panel of three judges appointed by the Council of the Society. The winner will receive £300 and be offered membership of the Society for one year. The winning essay will normally be published in the Society’s journal *Archives of natural history*. The submission deadline is 30 June 2019.

For full details and to download the application form, please visit the society’s website at: <https://shnh.org.uk/awards-honours-medals/william-t-stearn-student-essay-prize/>.

### **8. SHNH Small Research Fund**

Applications for grants from the Small Research Fund are invited; guidelines are provided on the SHNH website and

at the back of this newsletter.

The first grant from this newly established fund was awarded in August 2018 to Dr Bram Breure, Research Associate at the Naturalis Biodiversity Center in Leiden. Dr Breure gives an account of his successful research in Paris below.

“The aim of the project is to have a bio-bibliography and annotated taxalist for Hippolyte Crosse (1826–1898), director and main editor of the *Journal de Conchyliologie* during the period 1861–1898. My visit had a threefold objective: 1) to search for type specimens of Crosse taxa in the collection of the Muséum National d’Histoire Naturelle; 2) to speak with a descendant of Crosse to obtain biographical information; 3) to make enquiries about the precise publication dates of eight *Livraisons* of the *Mission Scientifique au Mexique...*, 7. *Mollusques*, published between 1870 and 1902, for which only a year has been given. On the MNHN database 237 molluscs and 2 brachiopod types have been registered; I found 175 additional ones in the typothèque (not registered and usually not photographed), 3 types are lost or missing, 16 are present according to the index cards but could not be found. This sums up to 433 nominal taxa being present in Paris, of the total 861 currently inventoried. The meeting with Crosse’s great-grandson resulted in additional biographical data and a number of photographs from the family archive. A visit to the Central MNHN Library was unsuccessful in obtaining further data on the publication, but an enquiry to the Bibliothèque National de France yielded precise dates for two *Livraisons*, and gave some clues for the remaining six. Further research is needed.”

Dr B. Breure, 16 December 2018

## 9. Renewing your SHNH Membership

Officers and designated Council members met with Edinburgh University Press last autumn in Edinburgh to discuss how we can enhance both the joining and the renewal process for membership. We hope that you are seeing the results of our discussions. We also very much hope that we have solved most outstanding membership queries, but if not, we encourage you to contact us directly so we can help.

We thought it would be useful to explain the calendaring system for renewals, as this is an area that has caused much confusion. The membership database works on a 'real time' basis and is accessed at certain points of time for the mailing of the two issues of *Archives of Natural History* (April & October) and the Newsletter (January and July). If you renew immediately when your reminder comes in December – you are then in the database and should receive everything. If you renew later than January, you will miss the first Newsletter mailing, and if you renew later than April, you will miss the first issue of *Archives*. These can be sent in arrears, but please note that *Archives* will then move to print-on-demand, and may take some time to arrive. Also, please note that anyone who joins from October onwards will automatically be made a member for the following year, not the current year i.e., if you joined in September 2018, your membership will be for 2018, if you joined in October 2018, your membership will run from 2019.

There are a number of payment options open to members and you will find them listed at the back of the *Newsletter*, plus the contact details for getting in touch with EUP. You are also welcome to contact our Membership Coordinator Miranda Lowe (m.lowe@nhm.ac.uk) for membership queries and Elaine Shaughnessy (webmaster@shnh.org.uk) for outstanding copies of the *Newsletter*.

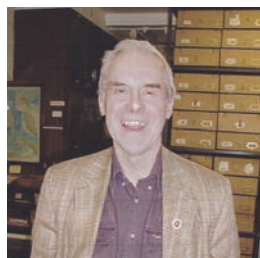
## 10. Hist-Nat-Hist discussion list

HIST-NAT-HIST is the SHNHs discussion list, hosted by Jiscmail. It is designed to promote enquiries and discussion relating to any aspect of the history of natural history. As well as requests for information or answers to other people's enquiries, the list welcomes notices and reviews of conferences, meetings, publications and exhibitions.

There is more information about the list and how to join on our website at: <https://shnh.org.uk/hist-nat-hist-discussion/>.

## 11. In Memorium David Moore

We are sad to announce the loss of our member and colleague Dr David Moore (1936–2018). David Thomas Moore, joint recipient of the Society's 2002 John Thackray Medal, died on 1<sup>st</sup> November 2018.



David was born in Battersea on 27<sup>th</sup> February 1936, just a short distance from the Natural History Museum where he would spend most of his career. As a boy, he was a chorister at St Luke's, Battersea and his Christian faith and choral music were both important to him throughout his life.

David served with the Royal Artillery in Egypt, Malta and Jordan before embarking on a scientific career. In the late 1960's he worked at ICI under P.W. Brian FRS., researching the effects of the plant hormone gibberellin.

Subsequently, and after studying at the Northern Polytechnic, London and taking a degree in botany and geology, he worked for the Forestry Commission at Alice Holt Lodge near Farnham and at the National Institute for Research in



Dairying, Shinfield before joining the staff of the then British Museum (Natural History) in 1968.

At the Museum, David was employed in the Department of Mineralogy. In addition to his curatorial duties he also undertook research, initially on the petrology of archaeological artefacts and sedimentary rocks, but increasingly focussed on the history of the early British Museum collectors and collections.

David published papers on the geological collections of the renowned physician Richard Bright (1789–1858), on the Antarctic geological specimens made by Scott and Shackleton, and on the geological collectors associated with the East India Company Museum, including those made by Thomas Horsfield (1773–1859) in Indonesia.

In 1982, David co-authored a paper with Professor Tom Vallance of the University of Sydney, entitled *Geological aspects of the voyage of HMS Investigator in Australian waters, 1801–1805*. Under the captaincy of Matthew Flinders (1774–1814), the *Investigator* completed the first European circumnavigation of Australia. David's paper on the geology of this voyage was to be the start of a long and productive interest in the *Investigator* and in Robert Brown FRS (1773–1858), the naturalist on the voyage, in particular. The same year, David, Tom and Eric Groves (from the Department of Botany at the Natural History Museum) started to prepare for publication Robert Brown's diary from the voyage. In 1991, David took compulsory early retirement from the Museum due to Government cuts and Tom Vallance passed away in 1993. However, David and Eric continued working on the project as Scientific Associates of the NHM. Published in 2001 (the bicentenary of the voyage), *Nature's Investigator: The Diary of Robert Brown in Australia, 1801–1805* would become a key reference work for the voyage and the scientific outcomes arising

from it. It clarified where the expedition went and provided an introduction to what was collected. It was for *Nature's Investigator* that David, Eric and Tom (the latter posthumously) were awarded the 2002 John Thackray Medal.

As a Scientific Associate, David continued to work on the *Investigator* voyage and on Robert Brown. He published on Brown's manuscripts, on the plants he collected and also on the natural history drawings made during the voyage by Ferdinand Bauer, arguably the greatest of all botanical artists.

David's last *Investigator* project was also his most ambitious. With the botanist and Brown biographer Professor David Mabberley, he embarked on *The Robert Brown Handbook: a guide to the life and work of Robert Brown (1773–1858), Scottish botanist*, with the aim to provide an account of the publications, manuscripts, plant names and eponymy resulting from the 1801–05 Flinders/Brown voyage to Australia.

After more than a decade working on the project, David fell ill as the *Handbook* was nearing completion. David Mabberley, assisted by Jacek Wajer, curator in the Natural History Museum's herbarium, was able to see the project through to completion. The proofs of the book are now being prepared and it is due to be published as a volume in the International Association of Plant Taxonomy's *Regnum Vegetabile* series in 2019.

It is a great sadness that David did not live to see the publication of his book after some many years of hard work but the *Handbook* will be a weighty reminder and a fitting legacy of David's contribution to our knowledge and understanding of the collections held at the Natural History Museum.

Mark Carine

## 12. News from our Representatives

Our Representative's Coordinator, Malgosia Nowak-Kemp, reported on news received from our Representatives to Council and some highlights are included below.

### Christa Riedl-Dorn (Central Europe).

Christa reports that, as usual, she answered requests and questions from members of the SHNH and that she had promoted the society at meetings and symposia. The majority of her work in 2018 concerned the NHM Vienna's exhibitions relating to space exploration and mineralogy, as well as some photography exhibitions. Last October, the museum opened an exhibition about the evolution of war, which mostly deals with archaeological and anthropological findings from the Thirty Years' War (1618–1648) but also deals with other periods including the Bronze Age and later wars. *War. Tracing an evolution* runs until 28<sup>th</sup> April 2019.

In May the scientific database (geared towards scientists and researchers) as well as the educational database (geared towards the general public) of the NHM Vienna will go online. The scientific database will have about 750,000 objects from all departments, the educational one with some 100,000 objects, but this is just the beginning.

Christa's department, the Archive for the History of Sciences is currently working on a Franz and Ferdinand Lucas Bauer exhibition at the Teylers Museum in Haarlem (NL). The exhibition's title is "200 kinds of green" and it will show work from both Ferdinand Lucas as well as Franz Bauer, but despite the title there will be also illustrations of animals. The exhibition will run from 2<sup>nd</sup> February – 12<sup>th</sup> May 2019. Her department is also currently in the process of digitalizing its large Ferdinand Lucas Bauer collection. The images and information should be

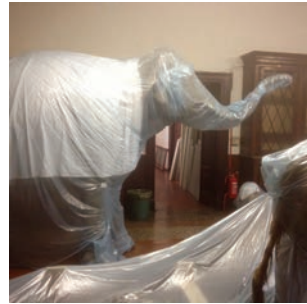
available shortly.

The official presentation of Christa's book about the polymath Stephan Ladislaus Endlicher *Ein uomo universal des 19. Jahrhunderts und sein wissenschaftliches Netzwerk* (V & R Unipress GmbH, 2018) took place on February 6<sup>th</sup> at the Natural History Museum Vienna. The Book deals with Endlicher's scientific and private correspondence as well as his scientific work and network which span the whole of Europe and even across the Ocean.

Email:

christa.riedl-dorn@NHM-WIEN.AC.AT

### Carlo Violani (Italy)



Napoleon's Indian elephant.

Carlo attended the International Congress of Ornithology held in Vancouver in August last year which also gave him the opportunity to travel to Toronto to see the Royal Ontario Museum with its dinosaurs and fossil mammals.

Back in Pavia, the restoration, storage and the planning of a new system of exhibits of the zoological and palaeontological material of the University Museum of Natural History continues to be in progress. The Museum, founded at the end of the 18<sup>th</sup> century by Empress Maria Theresa of Austria (1717–1780), had as its first director the famous biologist Lazzaro Spallanzani (1729–1799). The Museum is now closed to the public for the renovation and modification of the building struc-

tures of the 18<sup>th</sup> century Botta Palace. The zoological specimens are currently rearranged according to a new scheme, the *leit motiv* of which will be the scientific travel and collecting expeditions. The revision, inspection and selection of all the specimens for the new exhibits, with brief explanations about their collecting history is taking place. The exhibits will include such important specimens as the Indian Elephant from the Versailles gardens which was donated by Napoleon I to Pavia University; the dolphin, corals, fishes and shark collected by Spallanzani during his travels along the Mediterranean coasts from Marseille to Istanbul; the birds of paradise and kingfishers gathered in New Guinea by Odoardo Beccari (1843–1920) and Luigi M. D’Albertis (1841–1901); the Himalayan antelopes donated by Rossetti; the African mammals gathered by Luigi Robecchi Bricchetti (1855–1926) during his exploration of Somalia; the Andean condors taken in Chile by the explorer Gaetano Osculati (1808–1894, and many other important specimens.

At the same time, work on tracing the history and provenance of many fossils, stuffed vertebrates and skeletons, using the original MS Catalogues of the collections is also being undertaken. Carlo writes that ‘this analysis will take some time to be completed, but it will eventually shed new light and on our valuable zoological collections in the Museum’.

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### Elizabethanne Boran (Ireland)

Elizabethanne reports that the online exhibition ‘Farriery and Horses at the Edward Worth Library’ was launched in the summer of 2018: <http://edwardworthlibrary.ie/exhibitions-at-the-worth/smaller-exhibitions/farriery-and-horses-at-the-edward-worth-library/>.

This was followed in September by the launch of the online exhibition

‘Mythical Creatures at the Edward Worth Library’ <http://edwardworthlibrary.ie/exhibitions-at-the-worth/smaller-exhibitions/farriery-and-horses-at-the-edward-worth-library/>.

On 23 November 2018, a very successful one-day conference on the theme ‘Gardens and Gardening in Early Modern Ireland’ was held at the Dr Stevens’ Hospital in Dublin. This was organised by the Edward Worth Library ([www.edwardworthlibrary.ie](http://www.edwardworthlibrary.ie)) and there will be a forthcoming publication ‘Botany and Gardens in Early Modern Ireland’. Topics covered included: Botany and Gardens at the Edward Worth Library, Dublin (Dr Elizabeth-anne Boran); Pleasure gardens and gardening for pleasure in the Fagel Collection at the Library of Trinity College Dublin (Ms Regina Whelan Richardson, Curator of the Fagel Collection); Absence of Evidence – surely not! Researches, glimpses and observations from my site work in demesne landscapes (Dr Finola Reid); Gothick landscapes in Georgian Ireland (Dr Vandra Costello); The Dublin Nursery and Seed Trade from the 18<sup>th</sup> century (Dr Terence Reeves-Smyth (Northern Ireland Heritage Gardens Trust); and ‘How did her garden grow? Ellen Hutchins (1785–1815), botanist, West Cork (Ms Madeline Hutchins, Ellen Hutchins Festival).

### Takashi Watabe (Japan).



Edward S. Morse (1838–1925).

Takeshi Watabe reports that there is growing disquiet about the worsening condition of the marine ecosystem in

Japan. Because of the national concerns, there has been a growing local interest in the activities of Dr E. S. Morse and his Enoshima Marine Laboratory Station.

Dr Edward Sylvester Morse (1838–1925) was an American biologist who visited Japan in the latter half of 19<sup>th</sup> century. He was hired by the Zoological Section of the Science Faculty of Tokyo Imperial University as a Professor of Animal Physiology. Morse left a significant footprint in Japanese Archaeology because of his scientific excavation of the Shell Mounds of Omori in Tokyo that is acknowledged as the starting point of Japanese Archaeology. In the field of Marine Biology he was famous for his scientific work on brachiopods, especially on *Lingula anatina*. As soon as Morse arrived in Tokyo, he constructed a small marine laboratory station at Enoshima, facing Sagami Bay, where he devoted himself to research on the fauna, leaving behind many fine research notes and reports. He had excellent drawing skills, and his 1917 publication with drawings *Japan Day by Day*, makes a very beautiful and relevant document today. However, the station is now lost, and its exact locality was almost forgotten by the local people. Fortunately, two years ago, local researchers located the station and a monument has been constructed in recognition of the excellent work of Dr Morse.

Email: Watabe@keyaki.cc.u-tokai.ac.jp

**Alicja Zemanek** (Poland).

The History of Botany section of the Polish Botanical Society met on 24 May 2018 in the niadecki Collegium in the Botanic Garden of the Jagiellonian University, Krakow. Geographers Drs Sławomir Dorocki and Paweł Brzegowy from the Pedagogical University of Cracow, gave a talk about the previously little known work of a Polish botanist, geographer, and traveler, Antoni Rehman (1840–1917). Dr hab. Iwona

Arabas from the L. & A. Birkenmajer Institute for History of Science, Polish Academy of Sciences, Warsaw, presented documents about the loss of the natural history collections of Duchess Anna Jabłonowska's (1728–1800) museum. Robert Ksiopolski from Warsaw, presented a paper about herbs from museum garden of the priest Krzysztof Kluk (1739–1796), kept in the Museum of Agriculture in Ciechanowiec.

On 23 November 2018 a second meeting was held in the Mediaeval Carmelite Monastery in Krakow. The first two presentations were on plants in Mediaeval manuscripts (Magdalena Michniewska, a pharmacist from Krakow) and the history of collections from the family Pinaceae in the Herbarium of the Jagiellonian University (Piotr Köhler, Anna Plewa, Institute of Botany, Jagiellonian University).

Szymon Sulecki, the head of the archives, took the visitors to the Library and showed botanical and medical manuscripts as well as old prints. The treasures of the Library – old manuscripts illuminated with beautiful floral ornaments, were especially fascinating for historians of botany. Email: alicja.zemanek@uj.edu.pl.

**Margarita Hernandez-Laille** (Spain)

Margarita reports that an “Undergraduate Evolution Education Workshop” took place in the Joffre High School in Montpellier in September. This international workshop on the teaching of evolution was organized by EvoKe and Margarita attended as a representative of the Spanish National Museum of Natural Sciences (MNCN). EvoKe (Evolutionary Knowledge for Everybody, Fostering the public's understanding and acceptance of evolution) seeks to contribute to a world where people understand evolution and can use scientific knowledge and skills to make informed decisions that address social problems thereby contributing to an

inclusive, sustainable and resilient future”.

Margarita is also pleased to report that the National Museum of Natural Sciences (MNCN) has accepted her proposal to celebrate Darwin and Wallace on the 12<sup>th</sup> February annually. She continues with her research on the teaching of Darwinism during the franquism's period in Spain (1939–1970).

The Spanish Association for the Advance of Science (AEAC) was created to bring sciences closer to society, especially to younger people. As a part of this endeavour, the AEAC elects ‘Vocals’ who through their activities in various fields, help to achieve that aim. Margarita has just been elected Vocal in recognition of the value of her books, articles and talks in bringing Darwin's works to different audiences.

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### Sergio Zagier (South America)

The Museo de Farmacobotánica of the Universidad de Buenos Aires has began to restore more than 2,000 original documents from the archives of Aimé Bonpland (1773–1858), the French explorer and botanist who traveled in Latin America with Alexander von Humboldt. It is the most important archive on the continent for Bonpland.

Once the records are stabilized, the plan is to digitize them for online access. However, not being a well-known museum, it lacks the resources for fast progress. Currently one expert restorer contributes to the project working a day a week on the collection. There is little prospect for completion of the project in the foreseeable future unless some financial resources could be secured. Any help or advice from the SHNH should be greatly welcomed. More information can be found at: [www.ffyb.uba.ar/museo-farmacobotanica/](http://www.ffyb.uba.ar/museo-farmacobotanica/).

Email: Sergio@zagier.com

### 13. Book Reviews

Laura Brassington and Edwin Rose have retired as Book Reviews Editors for *Archives of Natural History* and we thank them very much for their contribution to the Society. We welcome Maggie Reilly as the new Book Reviews Editor. Maggie is a member of Council and Curator of Zoology at The Hunterian at the University of Glasgow. To contact Maggie, please use the contact details below:

Email address: [books@shnh.org.uk](mailto:books@shnh.org.uk)

Zoology Curator  
The Hunterian (Zoology)  
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United Kingdom

*Archives of Natural History* book reviews are now open access. To see more, please visit the ANH page of the Edinburgh University Press website at <https://www.euppublishing.com/loi/anh>.

The following titles have been reviewed for the Spring 2019 issue of SHNH *Archives of Natural History* 46 (1). Reviews received for the Autumn 2019 issue of ANH will be announced in the next newsletter.

ARCH, Jakobina K. *Bringing Whales Ashore: Oceans and the Environment of Early Modern Japan*. University of Washington Press, Seattle (Weyerhaeuser Environmental Books): 2018. ISBN: 978-0295743295.

ASSELIN, Alain, CAYOUE, Jacques & MATHIEU, Jacques. *Curieuses histoires de plantes du Canada*. Tome 3. 1760–1867. Les éditions du Septentrion, Québec: 2017. ISBN: 978-2894488850 (paperback), 978-2894482384 (pdf).

BAADJ, Nadia. *Jan van Kessel I (1626–79), Crafting a Natural History of Art in Early Modern Antwerp*. Brepols,



Turnhout: Harvey Miller Studies in Baroque Art 5: 2016. ISBN: 978-1909400238.

BAILES, Melissa. *Questioning Nature: British Women's Scientific Writing and Literary Originality, 1750–1830*.

University of Virginia Press, Charlottesville: 2017. ISBN: 978-0813939766 (hb), 978-0813939773 (e-book).

BERKOWITZ, Caroline & LIGHTMAN, Bernard editors. *Science Museums in Transition: Cultures of Display in Nineteenth-Century Britain and America*. University of Pittsburgh Press: 2017. ISBN: 978-0822944751.

BEWELL, Alan. *Natures in Translation: Romanticism and Colonial Natural History*. Johns Hopkins University Press, Baltimore, Maryland: 2016. ISBN: 978-1421420967.

BRUNNER, Bernd. *Birdmania: a Remarkable Passion for Birds*. Jane Billinghamurst, translator. Greystone Books, Vancouver: 2017. ISBN: 978-1771642774 (hb), 978-1771642781 (e-book).

DRONAMRAJU, Krishna. *Popularizing Science: The Life and Work of J. B. S. Haldane*. Oxford University Press, New York: 2017. ISBN: 978-0199333929.

EASTERBY-SMITH, Sarah. *Cultivating Commerce: Cultures of Botany in Britain and France, 1760–1815*. Cambridge University Press: 2017. ISBN: 978-1107126848 (hb), 978-1108515221 (e-book).

ITOH, Mayumi. *The Japanese Culture of Mourning Whales: Whale Graves and Memorial Monuments in Japan*. Palgrave Macmillan, London and New York: 2018. ISBN: 978-9811066702 (hb), 978-9811066719 (e-book).

FRAME, William with WALKER, Laura. *James Cook: the Voyages*. British Library, London: 2018. ISBN: 978-0712352901.

JAMES, Matthew J. *Collecting Evolution: The Galapagos Expedition that Vindicated Darwin*. Oxford University Press, New York: 2017. ISBN: 978-0199354597.

KÖSTERING, Susanne. *Ein Museum für*

*Weltnatur – die Geschichte des Naturhistorischen Museums in Hamburg*. Abhandlungen des Naturwissenschaftlichen Vereins in Hamburg, neue Folge 46. Dölling & Galitz, Munich and Hamburg: 2018. ISBN: 978-3862181056.

McALEER, John & RIGBY, Nigel. *Captain Cook and the Pacific: Art, Exploration and Empire*. Yale University Press, London: 2017. ISBN: 978-0300207248.

MONEY, Nicholas P. *Mushrooms: A Natural and Cultural History*. Reaktion Books, London: 2017. ISBN: 978-1780237435.

MYNOTT, Jeremy. *Birds in the Ancient World: Winged Words*. Oxford University Press: 2018. ISBN: 978-28556537664.

SHICK, J. Malcolm. *Where Corals Lie: A Natural and Cultural History*. Reaktion Books, London: 2018. ISBN: 978-1780239347.

#### 14. Archives News



Solitary snipe, *Gallinago solitaria*. Hodgson's "Birds of India", volume 6, sheet 38.

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The following papers and short notes have been accepted for publication in *Archives of natural history* 46 (1) due to be published in April 2019.

D. A. LOWTHER: The art of classification: Brian Houghton Hodgson and the "Zoology of Nipal" (Patron's review).

H. FUNK and C. E. VINCENOT: Siebold and Temminck on the distribution of *Pteropus dasymallus*, the Ryukyu Flying Fox.

C. L. DEVLIN: William Scoresby as an Arctic physical oceanographer.

E. C. NELSON: Katherine Sophia Bailly

(Lady Kane) and *The Irish Flora* (1833).  
 L. BALLARIN, E. ZANCANARO and P. NICOLOSI: Giovanni Canestrini's catalogue of the marine malacological collection at the Museo di Zoologia, Padua.  
 S. MATTIOLI: Ecology and biogeography in the introduction to "De bestiis marinis" by Georg Wilhelm Steller.  
 M. FLANNERY: Naming a genus for William Darlington: a case study in botanical eponymy.  
 N. J. MORLEY: Munro Fox and the public promotion of biology in the mid-twentieth century.  
 E. D. ROSE: Gilbert White, John Ray and the construction of *The Natural History of Selborne*.  
 M. A. TAYLOR: Three memoirs of Hugh Miller (1802–1856) by his son Hugh Miller FGS.  
 D. J. MABBERLEY and H. PICKERING: The first herbarium collection from the south Arabian coast?  
 E. C. NELSON: The "pedestrian traveller" Maurice Spillard (fl. 1777–1800): botanist in North America?  
 L. J. DORR: Mary and William Pool and their (mostly her) Malagasy lichen and plant collections.  
 LU Di: Recording fungal diversity in Republican China: Deng Shuqun's research in the 1930s.



Northern Fur Seal (*Callorhinus ursinus*).  
 "Fig. 1.": adult male on a rock; "Fig. 2.": female lying on her back (probably sketched by F. Plenisner and retouched by J. C. Berkhan). (Reproduced by courtesy of Humboldt University, Berlin.)

## Short notes

S. STREKOPYTOV: Ann Lee's plate in a 1771 edition of *Directions for Bringing Over Seeds and Plants*.  
 K. ROOKMAAKER: Edward Barlow's depiction of a living rhinoceros in transit to London in 1683.  
 E. C. NELSON: William Henry Harvey (1811–1866): addenda to bibliography.  
 C. DUIGAN: Carpenter's "Food relations" 1925: the first British diagrammatic representation of a freshwater food web?

## Society for the Bibliography of Natural History: founding and early members. Biographical notes.

A. DATTA: Cyril Cuthbert Barnard: medical librarian.

## 15. Archives of Natural History Virtual Issues

SHNH in association with Edinburgh University Press have made freely-available online three themed collections of papers that have been previously published in the *Archives of Natural History*. The subjects covered are "Women in Natural Sciences", "Voyages of Exploration (Cook and *Endeavour*)" and "Additional Voyages".

These have proved very popular and we hope to produce a new one this year to accompany our meeting in York, UK on "Trading Nature". To explore these issues please visit <https://www.euppublishing.com/anh/virtualissues>.

## 16. Accessing Archives of Natural History online

The full content of *Archives of Natural History* dating back to 1936 is available to SHNH members freely online. Electronic copies of new issues are available in advance of the printed version. To activate your free access, please activate the 2019 token, even if you have

previously registered. If you have any queries, please contact EUP by email: [Journals@eup.ed.ac.uk](mailto:Journals@eup.ed.ac.uk). For more information see the SHNH website.

## Society Events News

**17. Trading Nature  
The King's Manor  
University of York, York, UK  
4–5 June 2019**

**SHNH conference and AGM in  
association with the  
Geological Curators' Group**



The #SHNH2019 two-day international meeting, held in association with the Geological Curators' Group, will examine the role of agents, dealers and commercial enterprises in the history of natural history.

A great deal is recorded about those collecting and studying the natural world over the past 400 years. Much less is known about those who helped supply them. Often underplayed and viewed as peripheral and sometimes even shady figures, the endeavours, contributions and motivations of these 'middle-men and women' are often overlooked. The boundaries and realities of their everyday activities are frequently blurred and sometimes misunderstood. This meeting aims to shed new light on the lives, work and impact of these often undervalued participants and contributors in the development of collections and research in the natural sciences.

The meeting will aim to explore:

- The lives and roles of traders and dealers in natural history collecting networks
- The contributions of agents, dealers and commercial enterprises to the development of, and understanding in, the natural sciences
- The role of sale rooms and auction houses and other types of businesses as part of the culture of collecting
- The supply of natural history material of all kinds to private collectors, museums and universities
- The historical trade in specimens (living and non-living), around the world
- Trade networks and routes, and the ethics of trade over the past 400 years
- The role of colonialism, and those involved in the establishment and contribution to international trade
- The environmental and social impact of trade, be it political, economic, cultural, or environmental

Presentations will take place at The King's Manor, University of York on Tuesday 4<sup>th</sup> and the morning of Wednesday 5<sup>th</sup> June. The SHNH AGM will be held after lunch on 4<sup>th</sup> June. Behind-the-scenes tours of the Yorkshire Museum store, approximately 20 minutes from the city centre, will take place after lunch on Wednesday 5<sup>th</sup> June. Alternatively, delegates can visit the displays in the Yorkshire Museum or other cultural attractions or venues in the city centre. The conference dinner will take place on the evening of Tuesday 4<sup>th</sup> June.

**Registration:** Participants can register for either one or two days. The cost of the conference dinner will be additional.

Costs for members of SHNH, GCG and other affiliated organisations\* (to include refreshment breaks and lunch)

will be:

- £80 per person for two days, £45 for one day
- £60 for student members for two days, £35 for one day

Non-members rate (to include refreshment breaks and lunch) will be:

- £95 for two days, £50 for one day.

\*Includes spouses/partners of members and affiliated organisations e.g. NatSCA, BSHS.

Further information regarding options for visits, accommodation and registration are available on the SHNH and GCG's websites soon at:

<https://shnh.org.uk/> and

<https://geocurator.org/events>.

We look forward to seeing you there.

To see meeting and speaker updates please follow us online on our Facebook page at **Society for the History of Natural History** and on Twitter @SHNHsNatHist and @OriginalGCG. For the meeting we will use the hashtag #SHNH2019.

## Members' News

### 18. Catesby Commemorative Trust

The University of South Carolina is committed to creation of the Catesby Centre. It will be located within the University Libraries, which have a magnificent collection of historic botanical art, including a copy of each edition of Mark Catesby's *Natural History of Carolina, Florida and the Bahama Islands*. Honorary participants will be Sir Ghilleen Prance, Patron, Dr. Charles Nelson, Senior Research Director, Cynthia P. Neal, Producer/Director and Sylvia Bacon, Artistic Director. I will report to Thomas F. McNally, Dean of Libraries.

Concurrently Herbert Fitzgerald, formerly a Trustee of the Catesby Trust, has contributed his exceptional collection of Catesby etchings to the University, which will be useful in a number of ways. And a five-year strategic plan is being developed for the Centre, with implementation expected to start early in 2019. As a consequence of this excellent development, the Trust will be dissolved after sixteen years of accomplishments by a great team of over two dozen enthusiasts on both sides of the Atlantic.

David J. Elliott

## Other Events

### 19. 200 Kinds of Green The best of Franz and Ferdinand Bauer

Teylers Museum, Haarlem, NL  
2 February–12 May 2019

The Teylers Museum in Haarlem has organized a retrospective of the botanical artists Franz and Ferdinand Bauer. The drawings of both brothers are among the most exceptional botanical artworks ever made but they are relatively unknown in the Netherlands. The library in Teylers Museum holds the only copy of *Flora Graeca* in the country. This is the first time an exhibition about the Bauer brothers been shown in the Netherlands.

The exhibition shows various beautifully-illustrated publications by Franz and Ferdinand Bauer, complimented by original watercolours. For the first time, Ferdinand's field drawings from the collection of the Naturhistorisches Museum in Vienna will be on show, alongside detailed watercolours from the Natural History Museum in London and material from the Bodleian Libraries, Oxford. A lecture series has also been organized.

For more information see:

<https://www.teylersmuseum.nl/nl/bezo>

ek-het-museum/wat-is-er-te-zien-en-te-doen/200-soorten-groen.

**20. Expeditions and Endeavours**  
**Images of Nature Gallery**  
**Natural History Museum**  
**London, UK**  
Through October 2019



Indian long-eared hedgehog, *Hemiechinus collaris* by Olivia F. Tonge (1858–1949).  
Image courtesy of the Natural History Museum.

The exhibition aims to take visitors on an illustrated journey through all of the world's continents, bringing together a glorious selection of original drawings that were created as a result of some of the greatest voyages and personal expeditions of natural history discovery.

With many artworks on public display for the first time, the exhibition represents a rich cross-section of artworks by some of the finest natural history artists of all time, capturing new species and demonstrating how their visual contributions have significantly contributed to our understanding of the natural world.

#### AN ARTISTIC VOYAGE

Over the course of this exhibition, more than 100 artworks and illustrations from the Museum's Library collections will illuminate some of the most significant voyages of natural history discovery undertaken over the past 300 years.

The exhibition explores how perilous expeditions and the intrepid explorers who went on them have enhanced our scientific understanding of the natural

world. It also provides an insight into the lives of some of these individuals and the great lengths they were driven to in their desire to document what they observed and collected.

Seminal voyages represented include all three of Captain Cook's voyages to the Pacific and Robert Falcon Scott's *Discovery* and *Terra Nova* expeditions to Antarctica. There will also be many stunning illustrations from lone naturalist-explorers such as William Bartram and John Abbot in the Americas, Mungo Park and Francis Masson in Africa, and Olivia Tonge from her travels around India.

#### COLLECTION HIGHLIGHTS

*Expeditions and Endeavour* will run until October 2019 and has three remaining rotations. Each rotation will feature a highlights case.

#### November 2018 – March 2019

- artworks of flora and fauna from all three of Captain Cook's voyages to the Pacific
- koalas drawn by Ferdinand Bauer on the HMS *Investigator* voyage captained by Matthew Flinders – the first detailed scientific description of the koala was by botanist Robert Brown in 1814
- illustrations by early North American naturalists including William Bartram, William Young and John Abbot

#### March – July 2019

- photographs and illustrations from the HMS *Challenger* voyage
- the graphite illustrations by Joseph Dalton Hooker of emperor penguin embryos from one of the three eggs collected in 1911 during the *Terra Nova* expedition to the Antarctic on HMS *Erebus*
- the earliest illustration of whales held



in the Museum's collections, by trained doctor and surgeon Sigismund Bacstrom, whose artistic works show precision and accuracy

### July – October 2019

- depictions of African flora and fauna by Thomas Baines and Margaret Fountaine, and a seventeenth-century watercolour from the Museum's collection of Cape plants illustrations
- botanical and zoological illustrations from the NHM's Thomas Hardwicke collection
- artworks of Sydney Parkinson (1745–1771), naturalist artist on board the *Endeavour* voyage (1768–1771)

The accompanying publication *Expeditions and Endeavour* is available from the NHM Shop and online at <http://www.nhmshop.co.uk/expeditions-and-endeavours-images-of-nature.html>, priced £12.99.

## Meetings News

### 21. The History of Seed Exchange Linnean Society London, UK 9 March 2019

This lecture will explore the material practices of exchanging and saving seeds during the long eighteenth century. Drawing on the Linnean Society's rich carpological collections, this lecture will trace the ways in which manuscript and print materials were fashioned into seed packets. How novel and rare seeds moved through social networks and the literary apparatus required to participate in such seed exchanges will be the focus of this talk. For more information and to register see: <https://www.linnean.org/meetings-and-events/events/the-history-of-seed-exchange>.

### 22. Maritime Animals Telling Stories of Animals at Sea National Maritime Museum, London 25–27 April 2019

In maritime narratives of humans, ships and the sea, animals are too often absent, or marginalised in passing references, despite the fact that ships once carried, and were populated by, all kinds of animals. The conference will explore the following themes: the roles of animals in famous maritime episodes; the experiences of animals on board ships, and to what extent is it possible to recover them; policies and procedures regarding keeping animals on board, and how did the presence of animals affect maritime practices?

Maritime stories and anecdotes are also being sought. If you have any interesting stories of animal encounters on ships or other memorable maritime animal stories please email Dr. Kaori Nagai at [K.Nagai@kent.ac.uk](mailto:K.Nagai@kent.ac.uk). It is hoped to create an online forum to share stories, and some might be featured at the conference. For more information and to register please see: <https://www.rmg.co.uk/see-do/exhibitions-events/maritime-animals-telling-stories>.

### 23. Dead Interesting Secrets of Collections Success NatSCA Conference & AGM National Museum of Ireland, Dublin 1–3 May 2019

The #NatSCA2019 conference aims to unlock the secrets of collections success by sharing how its members and colleagues in the wider sector have used collections to benefit their organisations, communities and the wider world. Three themed sessions will focus on: on collections care, research and access secrets; engagement success stories; and how has technology helped to unlock and provide greater understanding of collections. For more information see: <https://www.natsca.org/natsca2019>.

**24. Collections in Circulation  
Mobile Museum International  
Conference  
Royal Botanic Gardens, Kew  
9–10 May 2019**

The conference will bring together scholars from the UK and overseas with a shared interest in the mobility of museum collections, past and present. Their papers will address various aspects of the history of the circulation of objects and their re-mobilisation in the context of object exchange, educational projects and community engagement.

Confirmed speakers include Claudia Augustat, Paul Basu, Joshua Bell, Martha Fleming, Sally Gregory Kohlstedt, Luciana Martins, Wayne Modest, Catherine Nichols, Jude Philp, Daniel Simpson, Alice Stevenson and members of the Mobile Museum project team

This conference is organised by the Mobile Museum project, a collaboration between Royal Holloway, University of London, and the Royal Botanic Gardens, Kew.

Full details of the programme and a link to booking registration are now available at:

<https://royalholloway.ac.uk/mobilemuseum/conference>.

Email: [mobilemuseum@kew.org](mailto:mobilemuseum@kew.org)

**25. Celebrating the Centenary of the  
Geological Society Female Fellows  
The Geological Society, London  
21–22 May 2019**

The two-day conference will focus on the historical contribution of women in Geology. The presentations will build on and expand the work achieved at an exploratory conference in 2005 “The Role of Women in the History of Geology”. It is intended to hold a celebration conference dinner and to publish the proceedings. Anyone interested in the history of geology may attend the meeting. For more information please see:

<https://historyofgeologygroup.co.uk/celebrating/>.

**26. Making the Case for Natural  
History Collections  
SPNHC 34<sup>th</sup> Annual Meeting  
The Field Museum, Chicago  
25–31 May 2019**

Since the Field Museum last hosted the Society for the Preservation of Natural History Collections (SPNHC) Annual Meeting in 1990, the value and relevance of natural history collections has become considerably clearer. It has recognized that SPNHC has become an influential voice on behalf of the specimens and objects that document the history of life on our planet. The theme for 2019 will be “Making the Case for Natural History Collections”. The meeting aims to encourage a more outward facing concept that engages the public and explains why it is of such importance in local and global communities. Details at:

<https://www.spnhcchicago2019.com/>.

**27. INHIGEO 2019 Symposium  
University of Insubria, Italy  
2–12 September 2019**

The 44<sup>th</sup> INHIGEO (International Commission on the History of Geological Sciences) Symposium will take place at the University of Insubria, with scientific sessions being held in Varese and Como and a final session in memory of Nicoletta Morello at the Visconti medieval castle in Somma Lombardo.

Participants will be based in Varese and transport for the sessions in Como and Somma Lombardo will be provided. The morning scientific session in Como will be followed by a half-day visit of the city. There will be a Mid-Meeting Field Trip and a Special Program for accompanying persons. The conference will be followed by a Post-Meeting Field Trip.

The conference themes are the: history of the Earth sciences in mountain environments; history of communication in the geological sciences; and general contributions on the history of geology.

For more information visit the website <https://inhigeo2019.jimdofree.com> or email [inhigeo2019@uninsubria.it](mailto:inhigeo2019@uninsubria.it) or to [ezio.vaccari@uninsubria.it](mailto:ezio.vaccari@uninsubria.it).

## A Good Read

### 28. Charles Nelson talks about M. Maxwell Knight, MI5's greatest spymaster

*M. Maxwell Knight, MI5's greatest spymaster* by Henry Hemming (Arrow Books, 2017). ISBN: 978-1784752040.

Step back to the 1950s and early 1960s with me. Radio – or, as we called it, “The Wireless” – was my family’s main source of “entertainment”, and programmes about natural history were favourites. One of the best known presenters was Maxwell Knight, his “rich, reassuring voice” was familiar to us all, regaling us with stories about the countless animals he had kept: “There are very few kinds of animal which it is possible for a private person to keep that I have not at some time had in my care”. In 1965, as Henry Hemming recalls, when a youngster joined London Zoo, one of the advertised benefits was the chance to “meet famous animals experts such as David Attenborough, Maxwell Knight, and Peter Scott”.

Of that triumvirate, Scott and Attenborough hardly need any introduction. Knight perhaps is different, at least to naturalists who did not grow up in those days within earshot of the BBC. Like Scott and Attenborough, Knight was also an author, and I am sure I read, if not owned, several of his books, although not *How to keep an elephant* (1967) or *How to keep a gorilla* (1968). By the way, David Cornwell provided

cartoons to illustrate two of Knight’s books: *Talking birds* (1961) and *Animals and ourselves* (1962). In case that name does not ring bells, Cornwell is much better known under his pen-name John Le Carré! (Interestingly, Cornwell/Le Carré’s wikipedia entry makes no mention of Cornwell as an illustrator.)

As Hemming’s title indicates, Knight had another profession: spy, spymaster! He was, as David Allen noted (see *History and mystery*, pp. 9–10), one of the pillars of the British security agency familiarly known as MI5 (Military Intelligence unit 5). In this capacity he was Cornwell’s superior officer for several years and, according to Hemming, Knight is reputed to have been the model for Jack Brotherhood in Le Carré’s *A Perfect Spy*. According to David Allen’s note, just mentioned, which referred to an earlier history of MI5 by Nigel West, Knight was “credibly believed” to have been the model for M in the James Bond stories of Ian Fleming who, being an avid birdwatcher, adopted “James Bond” from an American, Cambridge-educated ornithologist whose book *Birds of the West Indies* Fleming had seen when in the Caribbean. In real life, Maxwell Knight was known to his “sprawling family” of agents by that initial: M.

Hemming’s book has received praise: “highly entertaining”; “a cracking read”; “worthy of Le Carré himself”. It is certainly worth reading for entertainment, even if, as one reviewer opined, “Hemming’s ‘may have beens’ haunt a biography that promises rather more than it delivers.”

Max was a jazz musician as well as a spy and a naturalist. He was a maverick, an eccentric, an enigma, whose favourite childhood pet had been Agatha, a white Agouti rat. As a broadcaster and author he certainly influenced many children to think of becoming naturalists. In tribute, after his death in 1968, a memorial fund enabled the formation of the Young

Naturalists' Library housed in the education centre of the Natural History Museum, London.

[For more on Maxwell Knight, see especially <https://thefrightenedfaceof-nature.com/>. Plans were announced in 2016 for a "a book about Maxwell Knight, with particular reference to his contributions to natural history in the late 1940s and 1950s until his death in 1968". A commemorative symposium about Knight was held at Birkbeck College, London, under the auspices of (among others) the British Herpetological Society on 24 November 2018; the text of Simon H. King's introductory lecture "Maxwell Knight the Spymaster, 'M'", is available on <https://thefrightenedfaceofnature.com/>.]

E. Charles Nelson

## **29. John Ruita talks about the natural and cultural history of the Razor Clams of the Pacific Northwest**

*Razor Clams: Buried Treasure of the Pacific Northwest* by David Berger (University of Washington Press, 2017). ISBN: 978-0295741420.

Much like scents, flavors can have remarkable powers over our minds. Even a small taste of just the right flavor can, as Proust so eloquently described – at length – in his *À la recherche du temps perdu*, unlock a veritable treasure chest of memories. For myself, it's the flavors from my childhood that seem to have the greatest ability to send my mind whirling back through time. Raspberries and salmonberries, cinnamon toast and pannukakku – and razor clams. Indeed, as I discovered when reading David Berger's *Razor Clams; Buried Treasure of the Pacific Northwest*, even the well-written description of a flavor can possess this remarkable mnemosynic ability.

As a young boy growing up in Astoria, Oregon, both my father and

mother worked in the commercial fishing industry, as did many of my aunts, uncles, cousins, and the majority of people we knew. As my father and mother both worked during the day – and my father often all night as well during salmon seasons – I was often cared for by an older Finnish housewife named Frieda; to me – then as always – "Nana." Her husband Orvo, "Papa," also worked in the fishing industry, but not as a fisherman – rather at a local factory that made fishmeal. His fishing was purely recreational – steelhead and sturgeon, as well as digging Pacific Razor Clams.

Whenever he had a good stock of clams in the freezer, my parents, picking me up from Nana and Papa's home that evening, would stay for a supper of Nana's special razor clam fritters. The unique sweetness of the clams encased in the crisp, slightly salty batter (Nana's own recipe, of course) is a taste unlike any other I've ever experienced – and the taste that immediately came to mind when Berger first described the unique taste of Pacific Razor Clams in his book.

Of course, this is not a cookbook – although Berger does include in his work a generous selection of recipes for preparing the ivory-colored flesh of the title bivalves. It is, rather, a reflection upon a Berger's research into and personal experiences with Pacific Razor Clams (*Siliqua patula*), their natural history, their place in the commercial and recreational marine resources industries, and the cultural traditions that have developed around them. Yet make no mistake, this is no dry, academic tome; Berger's writing style is delightfully personal, peppered generously with side comments and the very human observations that would be expected in most any conversation about the subject.

And "very human" is the quality Berger most clearly brings out in his book. For unlike recreational fishing,

shellfish gathering, or crabbing, where significant equipment and much skill generally needs to be acquired before success becomes regular, the hunt – for indeed a “hunt” it is – for Pacific Razor Clams requires little more than a thin-bladed shovel, and the willingness to get cold and wet on a Pacific Northwest beach.

From families willing to drive long distances to reach the prime clam digging beaches of southern Washington’s coast, to the members of the Quinault nation who have for centuries relied on the clams as an important source of food and more recently through commercial digging as a source of income, to the bears who wield their enormous paws to extract these tasty treats from southerneastern Alaskan beaches, digging is the only way they can be obtained.

Supremely evolved for life in the sandy, broad, flat inter-tidal zones of the Pacific Northwest, the Pacific Razor Clam is a master of vertical movement. From their feeding positions just below the surface where they feast on the waves of diatoms washing over them with each passing wave, to the rapid vertical descents they can make through the sand by means of their stream-lined shell and single, powerful digging foot if disturbed (or pursued), these clams share none of the sedentary habits of many of their taxonomic relatives.

Of course, like many filter feeders, the dietary habits of Pacific Razor Clams also make them susceptible to such phenomena as the bacteria that causes NIX and blooms of the domoic acid producing phytoplankton *Pseudo-nitzschia*; both of which have afflicted the clams as well as those who seek to harvest them in recent years. Indeed, entire harvest seasons have required cancellation in recent years due to such outbreaks, bringing hardship upon both the First Nation and coastal tourism economies (although curiously, unlike NIX, domoic acid build up does not seem to

cause any damage to the clams themselves). Berger addresses all these matters, of course, presenting what is often somewhat difficult-to-understand matters of bio-ecology and wildlife management in a manner that all can clearly and correctly understand.

As a work of natural history, socio-economic history, and last but certainly not least gastronomic instruction, David Berger’s *Razor Clams; Buried Treasure of the Pacific Northwest* is a true delight. Well worth reading by anyone interested in its many-faceted narrative, it should be considered an absolutely essential book for those living on, near, or simply visiting the Pacific Northwest coast.

John E. Ruitta

## News & Information

### 30. National Museum of Brazil

On 2 September 2018, Brazil’s National Museum in Rio de Janeiro was destroyed by fire. Established 200 years ago, it was one of the largest museums of natural history and anthropology in the Americas. Its 20 million specimens included fossils unique to Brazil including *Maxakalisaurus*, the long-necked dinosaur, and Brazil’s largest meteorite.

The museum’s anthropology, ethnography, palaeontology, geology, entomology, arachnology and malacology collections were all housed in the main building – and most of them were destroyed. The botany, invertebrate and vertebrate collections were kept in separate annexes and are understood to have survived. Approximately 500,000 books, dating to the earliest days of the Portuguese Empire in Brazil, were also housed in a separate annex.

At the end of September work began on ensuring the museum’s burnt out building was structurally sound to



enable the museum staff to assess the scale of the devastation. Two weeks after the fire, staff set up tents in front of the burned building and invited the public to view a selection of surviving items from the museum's collection. By October, a crowdfunding campaign calling for the resumption of museum-sponsored programmes at local schools has raised more than half of its stated goal of 50 million Brazilian Real (~13 million USD).

Now, a recovery team is working through the ruins. A key moment was the rediscovery of "Luzia" – the 11,500-year old skull of the oldest human to be found in the Americas. The 5-ton Bendegó meteorite also survived. The team's coordinator has said that she hopes that by February the building should be secure enough for proper excavation work to begin.

Many international private organizations and government agencies are coming together to help with expertise and funds. The Brazilian government approved funding in its 2019 budget to help the museum get back on its feet but there is concern that this funding may be at risk, following the recent Presidential election.

UNESCO officials estimate that restoration could take roughly 10 years, but the Director of the Museum, Dr Kellner believes visitors will be able to return to the museum – at least in some form – within the next three years. Cristina Menegazzi, head of UNESCO's emergency mission for the museum, has outlined a plan that involves restoring salvageable artefacts, soliciting donations or loans from other institutions and creating replicas of lost artefacts with the help of photographs or 3D imaging technology. Dr Kellner issued a call for help from palaeontology colleagues and institutions asking for (1) photographs and replicas of its own specimens that perished; and (2) donations of any number of replicas and fossils, including comparative specimens,

from other institutions or individuals. Individuals and institutions can help the National Museum by sending formal letters stating that they will make such donations. Because the museum's 3D printers luckily survived, 3D digital data (copyright permitting) can also be sent to the museum.

The students at UNIRO, the Federal University of the State of Rio de Janeiro have also started a collection and have received thousands of images – photos, videos, selfies – of the museum's lost treasures. Anyone with photos to contribute to the students' collection can email them to: [thg.museo@gmail.com](mailto:thg.museo@gmail.com). Google was working with the museum to digitise some of its collections and has created a virtual tour of the museum which can be seen at: <https://art-sandculture.google.com/project/museu-nacional-brasil>.

### 31. Wisbech & Fenland Museum



Inside the Wisbech & Fenland Museum. ©  
Reproduced by permission of Harry Rutter.

Wisbech Museum was founded in 1835 and its collections are housed today in the original purpose-built building which was erected in 1846–1847. The Grade II\*-listed building was officially opened on 27 July 1847 by Professor Adam Sedgwick. Original display cases and bookcases are still in use, but the roof is in a very bad state and water is leaking in causing damage to the fabric of the building. Inevitably the collections, which include significant natural history specimens, are also at risk. In

2018, Historic England placed Wisbech & Fenland Museum on its “Heritage at risk” register, and made a grant available for the repair of the roof.

The Museum’s problems are not confined to the deteriorating building. Pressure on local government budgets in England caused the Fenland District Council to stop making funds available for the day-to-day running and staffing of the Museum, and it was threatened with closure and the dispersal of the collections. Very recently, a ReFounders fundraising campaign succeeded in securing promises of annual donations from individuals as well as local businesses and charities (until 2026) totalling more than £30,000 to meet these costs, while the Wisbech Town Council will quadruple its annual grant to £20,000. However, this will still leave a shortfall, and a patrons’ scheme to raise further funds will be launched in April 2019 (see Miles Rowland, *Museums journal*, 19 December 2018 URL (<https://www.museumsassociation.org/museums-journal/news/13122018-Wisbech-Fenland-30000-support-campaign>)).

In October 2002, the Society held a meeting in this little-known museum in the Fens which houses, among other items, the original manuscript of Charles Dickens’ *Great Expectations*. The natural history specimens include, among many others, fossils and ethnographical specimens assembled by William Stanger, William Skrimshire’s herbarium of Fenland plants, and Samuel Smith’s shells. Notable donors included John Gould, who visited Wisbech Museum on 14 November 1851 – “I’m extremely pleased with the cleanliness and arrangement of this little museum”, he wrote in the visitors’ book.

E. Charles Nelson

## 32. Smithsonian Closure

The world’s largest museum organisation was forced to close because of the US federal government shutdown which started on 22 December 2018. Having managed to remain open through to the New Year, the Smithsonian closed its doors on 2 January. The Smithsonian, which has 19 museums and galleries and the National Zoological Park, as well as research facilities, has nearly 30 million visitors a year. It holds approximately 155 million objects of which nearly 146 million are scientific specimens at the National Museum of Natural History.

The government shutdown, the result of an impasse between US president Donald Trump, the Republican-controlled Senate and the Democrat-controlled House of Representatives over funding for the president’s plan for a border wall has meant that around 800,000 people have been unable to go to work, or have had to work without pay. Scientists working in major federal agencies have had to suspend research work, the National Science Foundation suspended reviews of grant proposals, and many National Parks had to close their gates. At the time of writing, the government has been reopened until February 15<sup>th</sup>. Hopefully resolution will shortly be found.

## 33. ZSL Virtual Issues

The Zoological Society of London has compiled two open access, virtual issues on the theme of women and their contribution to natural history.

**Women and the blue planet**, with an introduction by Ann Sylph, includes contributions of women to the development of marine zoology. [https://zslpublications.onlinelibrary.wiley.com/hub/journal/14697998/women\\_and\\_blue\\_planet\\_vi](https://zslpublications.onlinelibrary.wiley.com/hub/journal/14697998/women_and_blue_planet_vi).



*Giraffa Camelopardalis rothschildi*, PZS, 1904, vol. 1, pl. 113.

**Women and Zoology**, with an introduction by Jon Bielby, includes papers from some of the the most notable female scientists and personalities from the history of the ZSL, the *Journal of Zoology*, and zoological research in general.

[https://zslpublications.onlinelibrary.wiley.com/doi/toc/10.1111/\(ISSN\)1469-7998.WomeninZoology](https://zslpublications.onlinelibrary.wiley.com/doi/toc/10.1111/(ISSN)1469-7998.WomeninZoology).

Also freely available are the ZSL's 'Hidden Gems' archive papers, published in the *Journal of Zoology's* predecessor *Proceedings of the Zoological Society of London*, and republished online with an introduction.

<https://zslpublications.onlinelibrary.wiley.com/hub/journal/14697998/hidden-gems>.

## Notes & Queries

### 34. New Year's Eve Dinner in an Iguanodon



*Illustrated London News*, public domain.

On New Year's Eve, December 31 1853, Benjamin Waterhouse Hawkins (1807–1894) hosted a famous dinner inside his life-size sculpture of an Iguanodon. Twenty-five of England's leading naturalists and officials associated with the Crystal Palace in Sydenham Park attended the dinner. The historic event was enthusiastically described (and illustrated) in the *Illustrated London News*, *Punch*, *The Times*, and elsewhere.

Several of the invitations that Hawkins extended to his guests for that evening have survived. One sent to his son, Benjamin Lawrence Hawkins, is now owned by the Natural History Museum, London. One featuring a pterodactyl that was sent to the geologist Joseph Prestwich is contained in a Hawkins scrapbook now owned by the Academy of Natural Sciences of Philadelphia (now part of Drexel University).

A third invitation, addressed to the ornithologist John Gould, has recently surfaced and has been added to the B.W. Hawkins collection at the Academy. It is an original pen and ink drawing which may have been the model for the invitation sent to B. L. Hawkins.

I am seeking information about any other invitations to this dinner which may survive. If you are aware of one, please contact Robert Peck, Curator of Art and Artifacts at the Academy of Natural Sciences, email: [rmp89@drexel.edu](mailto:rmp89@drexel.edu). Many thanks.

### 35. Seeking Books from the Bartrams' Library

Over a period of thirty some years I have been trying to locate books that were once owned by the 18<sup>th</sup> and early 19<sup>th</sup> century American naturalists John and William Bartram. Although I have located almost 30 books, the Bartrams' letters suggest that there were once many more. Where are they? Some may have found their way into the book trade and ended up in almost any part of the world.

If you should know of any, please contact Robert Peck, Curator of Art and Artifacts at the Academy of Natural Sciences, email: rmp89@drexel.edu. Mailing address: Robert M. Peck, The Academy of Natural Sciences of Drexel University, 1900 Benjamin Franklin Parkway, Philadelphia, PA 19103, USA.

### 36. A Flora of Shropshire (1838–1840)

I would be grateful for some help in tracing copies of two rare issues of *A Flora of Shropshire* by W. A. Leighton. It is listed in numerous catalogues and websites of academic libraries, invariably with a publication date of 1841. The title-page exists in two states, one giving the publishers as John Davies of Shrewsbury and John Van Voorst of London, the other with the same names in reversed order. The book was originally published in three parts – in 1838, 1839 and 1840. I have so far traced only one complete set and two other odd copies of part 3, all in private hands. The consolidated volume was published actually in 1840, despite its title-page date of 1841.

It appears from an advertisement inserted in another book, dated 1858, that the bookseller William Pamplin obtained the remainders of the volume, since he offered it at a considerably reduced price in a special de luxe (possibly morocco leather) binding. However, I have never seen such a copy, so I do not know whether this issue has a new title-page showing Pamplin as publisher. If it does not, then perhaps the only identifier might be if Pamplin had added his advertisements.

If anybody might be able to direct me either to another set of the original parts-issue of Leighton's book or to Pamplin's re-issue, it would be much appreciated. Please contact Ray Williams, email: raybw66@gmail.com.

## Publisher's Announcements

### 37. *Company Curiosities* Nature, Culture and the East India Company, 1600–1874

Arthur MacGregor  
Reaktion Books,  
2018  
352pp.  
ISBN: 978-  
1789140033 (hb)  
£40, US\$60.



For nearly three hundred years, the East India Company dominated British trade and relations with Asia. It made handsome profits for shareholders but also provided collectors in Europe with natural specimens and man-made rarities that were prized for their scientific, aesthetic or cultural value. An array of administrators, soldiers, surveyors spent much of their lives attempting to inventory and to comprehend India's vast country, its teeming populations and its myriad rituals and wildlife: nearly forty species of mammals and over 120 species of birds were discovered in the Katmandu valley alone; astonishing wall paintings from the fifth-century were unearthed in caves at Ajanta; and spectacular fossil fauna arrived from the Siwalik Hills.

*Company Curiosities* offers the first-ever overview of the remarkable role of the East India Company and its servants in collecting and showcasing a treasure-house of natural specimens and man-made objects – craft materials, paintings and sculptures, weapons, costumes, jewels and ornaments – that established the look and the feel of India for those who had never ventured abroad. Arthur MacGregor tells the stories behind the remarkable discoveries and collections, and those responsible for them, and their impact on natural science, commerce and industry, and personal taste.

### 38. Worlds of Natural History

H. A. Curry, N. Jardine, J. A. Secord,  
& E. C. Spary, (Eds.)  
Cambridge University Press, 2018  
682pp., illus.  
ISBN: 978-1316649718 (pb).  
£36.99

From Aztec accounts of hibernating hummingbirds to contemporary television spectacles, human encounters with nature have long sparked wonder, curiosity and delight. Written by leading scholars, this richly illustrated volume offers a lively introduction to the history of natural history, from the sixteenth century to the present day. Covering an extraordinary range of topics, from curiosity cabinets and travelling menageries to modern seed banks and radio-tracked wildlife, this volume draws together the work of historians of science, of environment and of art, museum curators and literary scholars. The essays are framed by an introduction charting recent trends in the field and an epilogue outlining the prospects for the future. Accessible to newcomers and established specialists alike, *Worlds of Natural History* provides a much-needed perspective on current discussions of biodiversity and an enticing overview of an increasingly vital aspect of human history.

### 39. William Stimpson and the Golden Age of American Natural History

Ronald Scott Vasile  
Northern Illinois University Press, 2018.  
312pp.  
ISBN: 978-0875807843 (pb)  
£22.

William Stimpson was at the forefront of the American natural history community in the latter half of the 19<sup>th</sup> century. Stimpson displayed an early affinity for the sea and natural history, and after completing an apprenticeship with

Louis Agassiz, he became one of the first professionally trained naturalists in the United States. In 1852, twenty-year-old Stimpson was appointed naturalist of the United States North Pacific Exploring Expedition, where he collected and classified hundreds of marine animals. Upon his return, he joined renowned naturalist Spencer F. Baird at the Smithsonian Institution to create its department of invertebrate zoology. He also founded and led the irreverent and fun-loving Megatherium Club, which included many notable naturalists. In 1865, Stimpson focused on turning the Chicago Academy of Sciences into one of the largest and most important museums in the country. Tragically, the museum was destroyed in the Great Chicago Fire of 1871, and Stimpson died of tuberculosis soon after, before he could restore his scientific legacy. This first-ever biography of William Stimpson situates his work in the context of his time. As one of few to collaborate with both Agassiz and Baird, Stimpson's life provides insight into the men who shaped a generation of naturalists – the last before intense specialization caused naturalists to give way to biologists. Historians of science and general readers interested in biographies, science, and history will enjoy this compelling biography.

### 40. Transformations The Art of the Scott Sisters, Colonial Sydney's Finest Natural History Painters

Vanessa Finney  
New South  
Publishing, 2018  
208pp., illus.  
ISBN: 978-  
1742235806 (hb)  
£32.50.

With their collecting boxes, notebooks and paintbrushes, Harriet and Helena Scott entered the masculine worlds of





science and art and became two of nineteenth-century Australia's most prominent natural history painters.

*Transformations* tells the complete story of the Scott sisters for the first time – their early lives in colonial Sydney, their training as naturalists and artists on the isolated Ash Island in the Hunter River near Newcastle, and their professional triumphs. This beautifully illustrated hardback is a rare pictorial record of two talented and determined women, who transformed nature into art in their extraordinary paintings of Australian butterflies and moths.

#### **41. King of the Dinosaur Hunters The Life of John Bell Hatcher and the Discoveries that Shaped Paleontology**

*Lowell Dingus*

Pegasus, 2019

544pp.

ISBN: 978-1681778655 (hb)

£27.39.

Every year millions of museum visitors marvel at the skeletons of dinosaurs and other prehistoric creatures discovered by John Bell Hatcher. The life of the “King of Collectors” is every bit as fascinating as the mighty bones and fossils he unearthed.

Hatcher helped discover and mount much of the Carnegie Museum's world famous, 150 million-year-old skeleton of *Diplodocus*, a slender-necked, long-tailed, plant-eater whose skeleton has captivated our collective imaginations for more than a century. But that was not all Hatcher discovered. During a now legendary collecting campaign in Wyoming between 1889–1892, Hatcher discovered a 66 million-year-old horned dinosaur, *Torosaurus*, as well as the first scientifically significant set of skeletons from its evolutionary cousin, *Triceratops*. Refusing to restrict his talents to enormous dinosaurs, he also discovered the first significant sample of mammal teeth from our relatives that

lived 66 million years ago. The teeth might have been minute, but this extraordinary discovery filled a key gap in humanity's own evolutionary history.

Hatcher's discoveries form the bases of some of the most well-known collections and institutions in the world – Yale, The Peabody Museum, Princeton University, the Carnegie Museum, and more. Nearly one hundred and twenty-five years after Hatcher's monumental “hunts” ended, paleontologist Lowell Dingus invites us to revisit Hatcher's captivating expeditions and marvel at this real-life Indiana Jones and the vital role he played in our understanding of paleontology.

#### **42. William Hunter and the Anatomy of the Modern Museum**

*M. Campbell & N. Flis (Eds.) with the  
assistance of M. D. Sánchez-Jáuregui*

Yale University Press, 2018

400pp., illus.

ISBN: 978-0300236651 (hb)

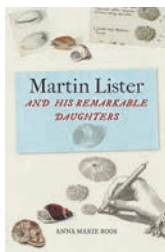
£50.

This publication is the first in 150 years to assess the contribution made by Dr. William Hunter (1718–1783), the Scottish-born obstetrician, anatomist, and collector, to the development of the modern museum as a public institution. Essays examine how Hunter gathered his collection to be used as a source of knowledge and instruction, encompassing outstanding paintings and works on paper, coins and medals, and anatomical and zoological specimens. Hunter also possessed ethnographic artifacts from Spain, the Middle East, China, and the South Pacific, and was an avid collector of medieval manuscripts and incunabula; these were all located within one of the most important “working” libraries of eighteenth-century London. *William Hunter and the Anatomy of the Modern Museum* was written to accompany the 2018 exhibition organized by

the Hunterian at the University of Glasgow, in collaboration with the Yale Center for British Art, to celebrate the Hunter's tercentenary.

### 43. Martin Lister and his Remarkable Daughters The Art of Science in the Seventeenth century

Anna Marie Roos  
The Bodleian Library,  
2018  
224pp., illus.  
ISBN: 978-1851244898  
(hb)  
£25.



When the extraordinarily prolific natural historian and fellow of the Royal Society Martin Lister (1639–1712) wrote to his wife Hannah in 1681 from France, he explained that he was enclosing a box of paint “colours in shells” for his two oldest daughters, 11-year-old Susanna and 9-year-old Anna Lister. Before the invention of squeezable tubes, the earliest containers for artists’ paints were shells, typically mussel and mother of pearl.

Disappointed with the work of established artists, Lister decided to teach his daughters how to illustrate images of the specimens he studied. Within a few years, Martin Lister, the first scientific arachnologist (spiders) and conchologist (molluscs), was relying on his daughters to illustrate his scientific works.

The sisters became so skilled that Lister entrusted them with illustrating his landmark *Historiae Conchyliorum*, (1685–92), which was later cited by Linnaeus. Using archival materials in the Bodleian Library, Anna Marie Roos reconstructs the process of the creation of Lister’s masterwork from the original shells that Sir Hans Sloane lent Lister and his daughters to sketch, to the drawings themselves, to the copperplates, and finally the draft and final

prints and books (both black-and white and hand-coloured).

Susanna and Anna not only portrayed the shells as curious and beautiful objects, but as specimens of natural history rendered with sensitivity and keen scientific empiricism. The sisters were amongst the first women to use microscopes to help produce some of their scientific illustrations.

This book is a fascinating reappraisal of the art of early science, which reveals the early techniques behind scientific illustration, as well as the often unnoticed role of women in the scientific revolution.

### 44. Where Corals Lie A Natural and Cultural History

J. Malcolm Shick  
Reaktion Books, 2018  
352pp., illus.  
ISBN: 978-1780239347 (hb)  
£35.

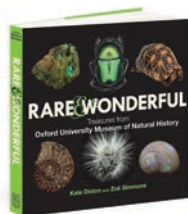
For millennia corals were a marine enigma confounding classification and occupying a space between the animal and vegetable kingdoms. Ultimately their animal and symbiotic natures were recognized, and they remain the focus of intense fascination and research.

The danger to seafarers posed by unseen underwater coral reefs led to their association with death and interment that has figured in literature, poetry, music and film. The bright redness of precious Mediterranean coral was associated with blood, including coral’s gory origin in European and Indian mythology, and its place in religion. Corals have long been prized as jewellery and ornament, and were a feature of many *Kunstkammer* collections during the Renaissance. Seen as ‘rainforests of the sea’, coral reefs have become greenly emblematic of fragile marine biodiversity, warning of human-driven global climate change. This book uniquely treats

the many manifestations of corals in biology and geology; how diverse corals came to figure in art, expeditionary accounts, medicine, folklore, geopolitics, and international trade; and corals as builders of islands and protectors of coastlines, and as building materials themselves. Exceptionally illustrated with a wide range of natural history images, underwater photographs and fine art, this book provides a unique resource for all interested in ocean environments and the cultures that have flourished there.

#### **45. Rare & Wonderful Treasures from Oxford University Museum of Natural History**

*Kate Diston & Zoe  
Simmons*  
The Bodleian Library,  
2018  
224 pp., illus.  
ISBN: 978-  
1851244843 (hb)  
£20.



Since its foundation in 1860, the Oxford University Museum of Natural History's world-renowned collections have become a key centre for scientific study and its much-loved building an important icon for visitors from around the world. The museum now holds over seven million scientific specimens including five million insects, half a million fossil specimens and half a million zoological specimens. It also holds an extensive collection of archival material relating to naturalists such as Charles Darwin, William Smith, William Jones and James Charles Dale.

This lavishly illustrated book features highlights from the collections ranging from the iconic Dodo (the only soft tissue specimen of the species in existence) and the giant tuna (brought back from Madeira on a perilous sea crossing in 1846) to crabs collected by Darwin during his voyage on the *Beagle*, David

Livingstone's tsetse fly specimens and Mary Anning's ichthyosaur. Also featured are the first described dinosaur bones, found in a small Oxfordshire village, the Red Lady of Paviland (who was in fact a man who lived 29,000 years ago) and a meteorite from the planet Mars. Each item tells a unique story about natural history, about the history of science, about collecting, or about the museum itself. They give a unique insight into the extraordinary wealth of information and the fascinating tales that can be gleaned from these collections, both from the past and for the future.

#### **46. Nature's Prophet Alfred Russel Wallace and his Evolution from Natural Selection to Natural Theology**

*Michael A. Flannery*  
The University of Alabama Press, 2018  
280 pp.  
ISBN: 978-0817319854(hb)  
£46.50

A spiritualist, libertarian socialist, women's rights advocate, and critic of Victorian social convention, Alfred Russel Wallace was in every sense a rebel who challenged the emergent scientific certainties of Victorian England by arguing for a natural world imbued with purpose and spiritual significance. In *Nature's Prophet*, Michael Flannery gives a critical reassessment of Wallace's path to natural theology and counters the dismissive narrative that Wallace's theistic and sociopolitical positions are not to be taken seriously in the history and philosophy of science.

Despite considerable research into the naturalist's life and work, Wallace's own evolution from natural selection to natural theology has been largely unexplored; yet, as Flannery shows, it is readily demonstrated in his writings from 1843 until his death in 1913. *Nature's Prophet* provides a detailed investigation

of Wallace's ideas, showing how, although he independently discovered the mechanism of natural selection, he at the same time came to hold a very different view of evolution from Darwin.

Ultimately, Flannery shows, Wallace's reconsideration of the argument for design yields a more nuanced version of creative and purposeful theistic evolution and represents one of the most innovative contributions of its kind in the Victorian and Edwardian eras, profoundly influencing a later generation of scientists and intellectuals.

**47. Charles Darwin's Debt  
to the Romantics**  
**How Alexander von Humboldt,  
Goethe and Wordsworth Helped  
Shape Darwin's View of Nature**

*Charles Morris Lansley*  
Peter Lang Ltd., 2018  
274pp.  
ISBN: 978-1787071384 (hb)  
£71.30.

This book argues that the Romantic movement influenced Charles Darwin and his theory of natural selection. Given that Darwin has traditionally been placed within Victorian naturalism, these Romantic connections have often been overlooked. The volume traces specific examples of Darwin's reliance on the Romantics – such as Alexander von Humboldt's *Personal Narrative*, which he took with him on the *Beagle*, and the poetry of William Wordsworth, discussed in his notebooks – and explores correlations in Darwin's own writings. When Darwin refers to the «archetype» in *Origin*, could he be drawing on Goethe's own use of the concept? And how to explain his description of all poetry as creating a feeling of «nausea»? In addition to these key figures, the book also explores the possible influence of Darwin's own grandfather, Erasmus Darwin. The book

cleverly follows Darwin's form of the narrative in a search for traces of history in both science and poetry, inspired by the unique imagination of Darwin himself.

**48. Specimens of Hair**  
**The Curious Collection of**  
**Peter A. Browne**

*Robert McCracken Peck*  
Blast Books, 2018  
176pp.  
ISBN: 978-0922233496 (hb)  
£39.95, US\$39.95.

To a nineteenth-century amateur naturalist named Peter A. Browne, hair was of paramount importance: he believed it was the single physical attribute that could unravel the mystery of human evolution. Thirty years before Charles Darwin revolutionized understanding of the descent of man, Browne vigorously collected for study what he called the "pile" of as wide a variety of humans and animals as possible in his quest to account for the differences and similarities between groups of humans.

The result of his diligent, obsessive work is a fastidious, artfully assembled twelve-volume archive of mammalian diversity. Browne's growing quest for knowledge became an all-consuming specimen-collecting passion. By the time of his death in 1860, Browne had assembled samples from innumerable wild and domestic animals, as well as the largest known study collection of human hair. He obtained hair from people from all parts of the globe and all walks of life: artists, scientists, abolitionist ministers, doctors, writers, politicians, financiers, military leaders, and even prisoners, and sideshow performers. His crowning achievement was a gathering of hair from thirteen of the first fourteen presidents of the United States. The pages of his albums, some spare, some ornately decorated, many printed ducit amor patriae – led by love

of country – are distinctly idiosyncratic, captivating, and powerfully evocative of a vanished world. Browne’s albums have been sequestered in the archives of the Academy of Natural Sciences in Philadelphia to which Brown bequeathed them, narrowly escaping destruction in the 1970s. They are a unique manifestation of the avid collecting instinct in nineteenth-century scientific endeavors to explain the mysteries of the natural world.

Pages from Peter A. Browne’s collection are on view through March 24 at the Academy of Natural Sciences of Drexel University (1900 Benjamin Franklin Parkway, Philadelphia, USA).

#### 49. *Erebus* The Story of a Ship

*Michael Palin*

Random House Books,  
2018

352pp., illus.

ISBN: 978-1847948120

(hb)

£20.



In September 2014 the wreck of a sailing vessel was discovered at the bottom of the sea in the frozen wastes of the Canadian arctic. It was broken at the stern and covered in a woolly coat of underwater vegetation. Its whereabouts had been a mystery for over a century and a half. Its name was HMS *Erebus*.

Now Michael Palin brings this extraordinary ship back to life, following it from its launch in 1826 to the epic voyages of discovery that led to glory in the Antarctic and to ultimate catastrophe in the Arctic. He explores the intertwined careers of the men who shared its journeys: James Clark Ross who charted much of the ‘Great Southern Barrier’ and oversaw some of the earliest scientific experiments to be conducted there; and John Franklin, who at the age of sixty and after a che-

quered career, commanded the ship on its final, disastrous expedition.

To help tell the story, the author travelled to various locations across the world – Tasmania, the Falklands, the Canadian Arctic – to search for local information, and to experience at first hand the terrain and the conditions that would have confronted the *Erebus* and her crew. This evocative account also contains illustrations of maps, paintings and engravings.

#### 50. *Birds in the Ancient World* Winged Words

*Jeremy Mynott*

Oxford University Press, 2018

480pp.

ISBN: 978-28556537664 (hb)

£30.

Birds pervaded the ancient world, impressing their physical presence on the daily experience and imaginations of ordinary people and figuring prominently in literature and art. They provided a fertile source of symbols and stories in myths and folklore and were central to the ancient rituals of augury and divination.

Jeremy Mynott’s *Birds in the Ancient World* illustrates the many different roles birds played in culture: as indicators of time, weather and the seasons; as a resource for hunting, eating, medicine and farming; as domestic pets and entertainments; and as omens and intermediaries between the gods and humankind.

We learn how birds were perceived – through quotations from well over a hundred classical Greek and Roman authors, all of them translated freshly into English, through nearly 100 illustrations from ancient wall-paintings, pottery and mosaics, and through selections from early scientific writings, and many anecdotes and descriptions from works of history, geography and travel.

Jeremy Mynott acts as a stimulating



guide to this rich and fascinating material, using birds as a prism through which to explore both the similarities and the often surprising differences between ancient conceptions of the natural world and our own. His book is an original contribution to the flourishing interest in the cultural history of birds and to our understanding of the ancient cultures in which birds played such a prominent part.

### 51. Scottish plant lore An illustrated flora

*Gregory Kenicer*  
RBG Edinburgh, 2018  
184pp., illus.  
ISBN: 978-1910877265 (hb)  
£25.

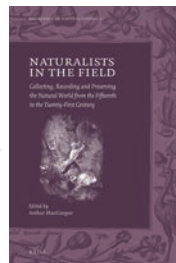


From our earliest hunter-gatherer ancestors to our high-tech modern societies, humanity would be doomed without the Green Kingdom. Plants shape us and the world around us – whether they are the crops we eat, the ornamentals that we grow in our gardens, the weeds on urban streets or the profusion of species that define wild environments. This book celebrates these plants and our relationship with them in the area that we now know as Scotland.

A visual and cultural feast, this book takes early herbals as inspiration, combining current scientific knowledge, original botanical illustrations and plant lore. Drawing on original sources, this book will demonstrate how versatile, necessary and even, occasionally, sinister, Scotland's plants can be.

### 52. Naturalists in the Field Collecting, Recording and Preserving the Natural World from the Fifteenth to the Twenty-First Century

*Arthur MacGregor* (Ed.)  
With a Foreword by Sir  
David Attenborough  
Brill, 2018  
1,040pp. illus.  
ISBN: 978-90043238434  
(hb)  
€270, US\$324  
E-ISBN: 978-  
9004323841  
€245, US\$ 294.



Interposed between the natural world in all its diversity and the edited form in which we encounter it in literature, imagery and the museum, lie the multiple practices of the naturalists in selecting, recording and preserving the specimens from which our world view is to be reconstituted. The factors that weigh at every stage are here dissected, analysed and set within a historical narrative that spans more than five centuries. During that era, every aspect evolved and changed, as engagement with nature moved from a speculative pursuit heavily influenced by classical scholarship to a systematic science, drawing on advanced theory and technology. Far from being neutrally objective, the process of representing nature is shown as fraught with constraint and compromise.

Contributors are: Marie Addyman, Peter Barnard, Paul D. Brinkman, Ian Convery, Peter Davis, Felix Driver, Florike Egmond, Annemarie Jordan Gschwend, Geoff Hancock, Stephen Harris, Hanna Hodacs, Stuart Houston, Dominik Huenniger, Rob Huxley, Charlie Jarvis, Malgosia Nowak-Kemp, Shepard Krech III, Mark Lawley, Arthur Lucas, Marco Masseti, Geoff Moore, Pat Morris, Charles Nelson, Robert Peck, Helen Scales, Han F. Vermeulen, and Glyn Williams.

## New & Recent Publications

Many thanks to everyone who contributes material to this section. May I just remind you to forward details of your own publications as well as those of general interest. Please include as many publication details as possible: such as publisher, date and ISBN.

**Alberti, S.** (2018) Museum nature. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 348-362). Cambridge UP.  
doi:10.1017/9781108225229.022.

**Anderson, K.** (2018) Natural history and the scientific voyage. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 304-318). Cambridge UP.  
doi:10.1017/9781108225229.019.

**Anderson, K.** (2018) Reading and writing the scientific voyage: FitzRoy, Darwin and John Clunies Ross. *The British Journal for the History of Science* 51 (3): 369-394  
doi:10.1017/S000708741800050X.

**Ash, M.** (2018) Zoological gardens. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 418-432). Cambridge UP.  
doi:10.1017/9781108225229.026.

**Asselin, A., Cayouette, J. & Mathieu, J.** (2017) *Curieuses histoires de plantes du Canada*. Tome 3. 1760-1867. Les éditions du Septentrion, Québec. 312 pp., illus. ISBN: 978-2894488850 (pb), 978-2894482384 (pdf). CDN\$49.95.

**Avramov, I.** (2018) Letters and questionnaires: the correspondence of Henry Oldenburg and the early Royal Society of London's Inquiries for Natural History. In P. Findlen (Ed.), *Empires of Knowledge: Scientific Networks in the Early Modern World*. Routledge.

**Bailes, M.** (2017) *Questioning Nature: British Women's Scientific Writing and Literary Originality, 1750-1830*. Virginia UP. 272pp. ISBN: 978-0813939766 (hb), 978-0813939773 (ebook). US\$45.

**Belknap, G.** (2018) Illustrating natural history: Images, periodicals, and the making of nineteenth-century scientific communities. *The British Journal for the History of Science*, 51 (3): 395-422.  
doi:10.1017/S0007087418000511.

**Benson, E.** (2018) Fieldwork out of place. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 504-517). Cambridge UP.  
doi:10.1017/9781108225229.032.

**Benton, M. J.** (2019 April). *The Dinosaurs Rediscovered: How a Scientific Revolution is Rewriting History*. Thames and Hudson Ltd. 336pp. ISBN: 978-0500052006 (hb). £24.95.

**Bewell, A.** (2016) *Natures in Translation: Romanticism and Colonial Natural History*. Johns Hopkins UP. 416pp. ISBN: 978-1421420967 (hb). US\$60.

**Black, P. & Dulau Beveridge, A.** (2018) Pictures. In M. Campbell & N. Flis (Eds.), *William Hunter and the Anatomy of the Modern Museum*. Yale UP.

**Bleichmar, D.** (2018) Botanical conquistadors. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 236-254). Cambridge UP. doi:10.1017/9781108225229.015.

**Breteler, A.-G.** (2018) *De traanjagers – Herinneringen van naoorlogse walvisvaarders* [The blubber hunters: reminiscences of post-War whalers]. Amsterdam University Press. 190pp., illus. ISBN: 978-9462983816 (pb). €19.99.

**Brixius, D.** (2018) A hard nut to crack: Nutmeg cultivation and the application of natural history between the Maluku islands and Isle de France (1750s-1780s). *The British Journal for the History of Science* 51 (4): 585-606.  
doi:10.1017/S0007087418000754.

**Brown, M.** (2018) Robert Brown and HMS *Investigator*: To Botany Bay and Back. *The Linnean* 34 (2): 7-10.

**Campbell, M.** (2018) Pacific and Other 'Curiosities'. In M. Campbell & N. Flis (Eds.), *William Hunter and the Anatomy of the Modern Museum*. Yale UP.

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- Professional Practice. In M. Campbell & N. Flis (Eds.), *William Hunter and the Anatomy of the Modern Museum*. Yale UP.
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- Campbell, M. & Flis, N. (Eds.)** (2018) with the assistance of **M. D. Sánchez-Jáuregui**. *William Hunter and the Anatomy of the Modern Museum*. Yale UP. 400pp., illus. ISBN: 978-0300236651 (hb). £50.
- Chapron, E.** (2018) Tools for Science: Libraries in Scientific Institutions in Eighteenth-Century France and Italy. *Nuncius: Journal of the Material and Visual History of Science* 33 (2): 236–264. doi: <https://doi.org/10.1163/18253911-03302003>.
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- Clayton, D.** (2017) *Charles Parish – Plant Hunter and Botanical Artist in Burma*. Ray Society. 292 pp. ISBN: 978-0903874502 (hb). £85.
- Cleal, C. J.** (2018) The paleobotanical contributions of Charles James Fox Bunbury (1809–1886). *Earth Sciences History* 37 (1): 88–108. doi: <https://doi.org/10.17704/1944-6178-37.1.88>. [During the 1850s, Charles James Fox Bunbury, 8<sup>th</sup> Baronet Bunbury, was Britain’s leading paleobotanist, who published a series of papers on fossil floras of Carboniferous, Jurassic and Neogene age.]
- Coote, A., Haynes, A., Philp, J. & Ville, S.** (2017) When Commerce, Science and Leisure Collaborated: the Nineteenth-Century Global Trade Boom in Natural History Collections. *Journal of Global History* 12 (3): 319–339.
- Cowie, H.** (2018) Exhibiting animals: Zoos, menageries and circuses. In H. Kean & P. Howell (Eds.), *The Routledge Companion to Animal–Human History*. Routledge. doi: 10.4324/9780429468933-13.
- Craig, M.** (2018) The Library. In M. Campbell & N. Flis (Eds.), *William Hunter and the Anatomy of the Modern Museum*. Yale UP.
- Crawford, M. J.** (2016) *The Andean Wonder Drug: Cinchona Bark and Imperial Science in the Spanish Atlantic, 1630–1800*. Pittsburgh UP. xi + 284pp. ISBN: 978-0822944522 (hb). US\$45.
- Csiszar, A.** (2018) *The Scientific Journal: Authorship and the Politics of Knowledge in the Nineteenth Century*. Chicago UP. 368pp. ISBN: 978-0226553238 (hb). US\$45.
- Curry, H. A.** (2018) Imperilled crops and endangered flowers. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 460–475). Cambridge UP. doi:10.1017/9781108225229.029.
- Curry, H. A. & Secord J.** (2018) Natural history and its histories in the twenty-first century. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 535–544). Cambridge UP. doi:10.1017/9781108225229.034.
- Curry, H. A., Jardine, N., Secord, J. A. & Spary, E. C.** (Eds.) (2018) *Worlds of Natural History*. Cambridge UP. 682pp., illus. ISBN: 978-1316649718 (pb). £36.99.
- Dal Prete, I.** (2018) Ingenuous investigators: Antonio Vallisneri’s regional network and the making of natural knowledge in eighteenth-century Italy. In P. Findlen (Ed.), *Empires of Knowledge: Scientific Networks in the Early Modern World*. Routledge.
- Darwin, C.** (2018). *The Correspondence of Charles Darwin: Volume 26, 1878*. F. Burkhardt, J. A. Secord & The Editors of the Darwin Correspondence Project, (Eds.). Cambridge UP. 814pp. ISBN: 978-1108475402 (hb). £94.99. doi:10.1017/9781108566940. [Includes letters from 1878, the year in which Darwin with his son Francis carried out

- experiments on plant movement and bloom on plants. Francis spent the summer at a botanical research institute in Germany; and father and son exchanged many detailed letters about his work. Meanwhile, Darwin tried to secure government support for attempts by one of his Irish correspondents to breed a blight-resistant potato.]
- Davey, J.** (2018) *Tudor and Stuart Seafarers: The Emergence of a Maritime Nation, 1485–1707*. Adlard Coles. 272 pp., illus. ISBN: 978-1472956767 (hb). £25.
- Demandt, P. & Voermann, I.** (2018) *König der Tiere – Wilhelm Kuhnert und das Bild von Afrika* [King of the Animals. Wilhelm Kuhnert and the Image of Africa]. Hirmer, Munich. 264pp., 171 illus. ISBN: 978-3777431284 (hb). €39.90. [Wilhelm Kuhnert (1865–1926) was one of the first European artists visit the former colony of German East Africa, which at that time was still largely unexplored. His drawings and oil sketches of the flora and fauna in the region served as references for monumental paintings that he later produced in his studio in Berlin.]
- Dingus, L.** (2019) *King of the Dinosaur Hunters: The Life of John Bell Hatcher and the Discoveries that Shaped Paleontology*. Pegasus. 544pp. ISBN: 978-1681778655 (hb). £27.39.
- Diston, K. & Simmons, Z.** (2018) *Rare & Wonderful: Treasures from Oxford University Museum of Natural History*. The Bodleian Library. 224 pp., illus. ISBN: 978-1851244843 (hb). £20.
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- Ette, O. & Maier, J.** (2018) *Alexander Von Humboldt: The Complete Drawings from the American Travel Journals*. Prestel. 736pp., illus. ISBN: 978-3791383545 (hb). £160.
- Faithfull, J. & Clark, N.** (2018) Ores and Fossils. In M. Campbell & N. Flis (Eds.), *William Hunter and the Anatomy of the Modern Museum*. Yale UP.
- Felfe, R.** (2018) Spatial arrangement and systematic order. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 185-204). Cambridge UP. doi:10.1017/9781108225229.012.
- Findlen, P.** (Ed.) (2018) *Empires of Knowledge: Scientific Networks in the Early Modern World*. Routledge. 412pp. ISBN: 978-1138207134 (pb). £29.99.
- Findlen, P. & Toledano, A.** (2018) The materials of natural history. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 151-169). Cambridge UP. doi:10.1017/9781108225229.010.
- Finney, V.** (2018) *Transformations: The Art of the Scott Sisters, Colonial Sydney's Finest Natural History Painters*. New South Publishing. 208pp., illus. ISBN: 978-1742235806 (hb). £32.50.
- Flannery, M. A.** (2018) *Nature's Prophet: Alfred Russel Wallace and his Evolution from Natural Selection to Natural Theology*. Alabama University Press. 280pp. ISBN: 978-0817319854(hb). £46.50.
- Flis, N.** (2018) Skeletons in Hunter's Closet: James Douglas and the Fashioning of William Hunter. In M. Campbell & N. Flis (Eds.) *William Hunter and the Anatomy of the Modern Museum*.

Yale UP.

**Gambarotto, A.** (2017) Lorenz Oken (1779–1851): Naturphilosophie and the reform of natural history. *The British Journal for the History of Science* 50 (2): 329–340.

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**Hanson, C. A.** (2018) A Motto for a Museum: William Hunter's Inheritance from Richard Mead. In M. Campbell & N. Flis (Eds.) (2018), *William Hunter and the Anatomy of the Modern Museum*. Yale UP.

**Harris, S.** (2017) *Oxford Botanic Garden & Arboretum: A Brief History*. The Bodleian Library. 144pp. ISBN: 978-1851244652. £14.99.

**Holmes, J.** (2018) *The Pre-Raphaelites and Science*. Yale UP. 308pp., illus. ISBN: 978-0300232066 (hb). £35.

**Hünniger, D.** (2018) 'Extolled by Foreigners': William Hunter's Collection and the Development of Science and Medicine in Eighteenth-Century Europe. In M. Campbell & Flis, N. (Eds.), *William Hunter and the Anatomy of the Modern Museum*. Yale UP.

**Inglar, D.** (2017, reprint edn) *The Great Ocean: Pacific Worlds from Captain Cook to the Gold Rush*. OUP. 272pp. ISBN: 978-0190498757 (pb). £19.99, US\$24.95.

**Itoh, M.** (2018) *The Japanese Culture of Mourning Whales: Whale Graves and Memorial Monuments in Japan*. Palgrave Macmillan. xxi + 267pp., illus. ISBN: 978-9811066702 (hb), 978-9811066719 (e-book). £74.50, US\$99.99 (hb); £58.99, US\$79.99 (e-book).

**Jardine, N. & Spary, E. C.** (2018) Worlds of history. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 3–14). Cambridge UP.  
doi:10.1017/9781108225229.001.

**Jones, A. & Taub, L.** (Eds.) (2018) *The Cambridge History of Science, Volume 1: Eighteenth-Century*. Cambridge UP. 660pp., illus. ISBN: 978-0521571623 (hb). £120.

**Jorink, E.** (2018) Insects, philosophy and the microscope. In H. A. Curry, N.

Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 131–148). Cambridge UP.

doi:10.1017/9781108225229.009.

**Kean, H. & Howell, P.** (Eds.) (2018) *The Routledge Companion to Animal–Human History*. Routledge. 574pp. ISBN: 978-1138193260 (hb). £140. [A guide for the historian working within the growing field of animal-human history. Contributions explore the practices of and challenges posed by historical studies of animals and animal-human relationships.]

**Keene, B. C. & Kaczynski, A.** (2017) *Sacred Landscapes: Nature in Renaissance Manuscripts*. Yale UP. 112 pp. illus. ISBN: 978-1606065464(hb). £19.99.

**Kenicer, G.** (2018) *Scottish plant lore: an illustrated flora*. RBG Edinburgh. 184pp. ISBN: 978-1910877265 (hb). £25.

**Knight, L.** (2018) Horticultural networking and sociable citation. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 61–77). Cambridge UP.  
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**Köstering, S.** (2018) *Ein Museum für Weltnatur – die Geschichte des Naturhistorischen Museums in Hamburg* [A Museum of World Nature: The History of the Natural History Museum in Hamburg (Treatises of the Natural Science Association in Hamburg)]. Abhandlungen des Naturwissenschaftlichen Vereins in Hamburg, neue Folge 46. Dölling & Galitz. 344pp. ISBN: 978-3862181056 (pb). €30.

**Kusukawa, S.** (2018) Gessner's history of nature. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 33–43). Cambridge UP. doi:10.1017/9781108225229.003.

**Lack, H. W.** (2018) *Alexander von Humboldt: And the Botanical Exploration of the Americas*. Prestel, 2<sup>nd</sup> rev. edn. 290pp., illus. ISBN: 978-3791384153 (hb). £45, US\$48.

**Lansley, C. M.** (2018) *Charles Darwin's Debt to the Romantics: How Alexander von Humboldt, Goethe and Wordsworth Helped*



- Shape Darwin's View of Nature*. Peter Lang Ltd. 274pp. ISBN: 978-1787071-384 (hb). £71.30.
- Lasser, E. W. et al.** (2017) *The Philosophy Chamber: Art and Science in Harvard's Teaching Cabinet, 1766–1820*. Yale UP. 312pp. ISBN: 978-0300225921 (hb). £45.
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- MacGregor, A.** (2018) *Company Curiosities: Nature, Culture and the East India Company, 1600–1874*. Reaktion Books. 352pp. ISBN: 978-1789140033 (hb). £40, US\$60.
- McCormack, H.** (2017) *William Hunter and his Eighteenth-Century Cultural Worlds: The Anatomist and the Fine Arts*. Routledge. 220pp., illus. ISBN: 978-1472424426 (hb). £110.
- McCracken Peck, R.** (2018). Foreword. In J. Oppenheimer & L. Oppenheimer, *The Family of Hummingbirds: The Complete Prints by John Gould*. Rizzoli.
- McCracken Peck, R.** (2018) *Specimens of Hair: the Curious Collection of Peter A. Browne*. Blast Books. 176pp. ISBN: 978-0922233496 (hb). £39.95, US\$39.95.
- McCracken Peck, R.** (2018) The Remarkable Nature of Edward Lear. *Proceedings of the American Philosophical Society* 162 (2) June 2018: 158-190.
- McCracken Peck, R.** (2017) Books and Birds: ornithological bookplates and their makers. *Bookplate Journal*, New Series 15 (2) Autumn 2017: 89-97.
- Money, N. P.** (2017) *Mushrooms: A Natural and Cultural History*. Reaktion Books. 224pp. ISBN: 978-1780237435 (hb). £18.99.
- Moore, P.** (2018) *Endeavour: The Ship and the Attitude that Changed the World*. Chatto & Windus. 432pp. ISBN: 978-1784740900 (hb). £20.
- Moss, S.** (2018) *Mrs Moreau's Warbler: How Birds Got Their Names*. Guardian Faber Publishing. 368pp. ISBN: 978-1783350902 (hb). £16.99.
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doi:10.1017/9781108225229.002.
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- Palin, M.** (2018) *Erebus: The Story of a Ship*. Random House Books. 352pp., illus.  
ISBN: 978-1847948120 (hb). £20.
- Pearman, D. A.** (2017) *The Discovery of the Native Flora of Britain & Ireland: A Compilation of the First Records for 1670 Species and Aggregates, Covering Great Britain, Ireland, The Channel Isles and the Isle of Man*. Botanical Society of Great Britain & Ireland. 488pp., illus. ISBN: 978-0901158529 (hb). £19.99.
- Plumb, C.** (2018) Bird sellers and animal merchants. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 255-270). Cambridge UP.  
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- Radin, J.** (2018) The unnatural history of human biology. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 491-503). Cambridge UP.  
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- Reilly, M. & Robinson, J.** (2018) Shells, Corals, Birds, Insects, and Other Preserved Animals. In M. Campbell & N. Flis (Eds.), *William Hunter and the Anatomy of the Modern Museum*. Yale UP.
- Richards, M.** (2018) Wild visions. In H. A. Curry, N. Jardine, J. A. Secord & E. C. Spary (Eds.), *Worlds of Natural History* (pp. 518-532). Cambridge UP.  
doi:10.1017/9781108225229.033.
- Richards, R. J. & Ruse, M.** (2016) *Debating Darwin*. Chicago UP. xvi + 299pp. ISBN: 978-0226384429 (hb). £21, US\$30.
- Riffenburgh, B.** (2017) *The Great Explorers and Their Journeys of Discovery* (Royal Geographical Society). Andre Deutsch. 208pp., illus. ISBN: 978-0233005270 (hb). £25.
- Rigby, N., van der Merwe, P. & Williams, G.** (2018) *Pacific Exploration: Voyages of Discovery from Captain Cook's Endeavour to the Beagle*. Adlard Coles. 256 pp., illus. ISBN: 978-1472957733 (pb). £18.99.
- Roos, A-M.** (2018) *Martin Lister and his Remarkable Daughters: The Art of Science in the Seventeenth century*. The Bodleian Library. 224pp., illus. ISBN: 978-1851244898 (hb). £25.
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### 53. Captain Matthew Flinders, RN

For 180 years, the exact location of the last resting place of explorer and navigator Captain Matthew Flinders (1774–1814), has been unknown. But archaeologists excavating a disused burial ground near Euston Station, London, have found the officer's grave. The lead depositum plate – breast plate – put on top of Flinders' coffin when he was buried in July 1814 has meant that his remains could be formally identified.

Flinders joined the Navy at 15, sailed with Captain Bligh on HMS *Providence* transporting breadfruit and botanical specimens from the Pacific to the West Indies, and at 20 sailed for Sydney on HMS *Reliance* together with the naval surgeon George Bass (1771–1803), with whom he went on to prove that Van Diemen's Land (Tasmania) was an island. In 1801, Flinders, accompanied by the botanist Robert Brown (1773–1858) and the artist Ferdinand Bauer (1760–1826), left England for Australia on HMS *Investigator*. He spent the next two years circumnavigating Australia – charting much of its coastline and confirming it was a continent.

In December 1803, on returning to England, Flinders was forced to take port in Mauritius, where he was detained until 1810 by the French under suspicion of being an English spy. When he finally returned to England, he wrote up his findings in *A Voyage to Terra Australis* (1814), but did not live to enjoy the success of his publication, as he died the day after it was published.

However, as the



Captain Matthew Flinders RN, 1814.



St James's Church facing the Hampstead Road, from *Old and New London* (1873). The church was built in 1791 and stands in the burial ground of St James Piccadilly.

first person to circumnavigate the continent and the explorer who popularised its name, Flinders is a figure of national importance in Australia and has a mountain range, two national parks, a river, a reef, and a university in Adelaide named after him, among other things. At the bicentenary of his death, a statue was unveiled by the Duke of Cambridge at Australia House, London and later installed at Euston Station.

Although Matthew Flinders is known to have been buried in St James' burial ground – the late 18<sup>th</sup> and 19<sup>th</sup> century overspill burial ground for the parish of St. James Piccadilly – the site of his grave is reported to already have been lost in 1852 when his sister-in-law visited the cemetery. Following the expansion of Euston Station into part of the burial ground in the 1840s, many of the memorial stones were removed and repositioned around the edges of the ground. The site was closed following the Burial Acts of the 1850s and was reopened as St James's Gardens in 1887.

People from all walks of life, from paupers to nobility, were interred at St James's. Other notables buried there include James Christie – the founder in 1766 of the auction house Christie's; Bill 'the Black Terror' Richmond – a slave born in New York who became a celebrated bare-knuckle boxer and taught Lord Byron to spar; and the political and religious activist Lord George Gordon, famous for his part in the anti-Catholic 'Gordon Riots' of





Koalas. Watercolour on paper by Ferdinand Bauer. Image courtesy of the Natural History Museum, London.

1780. The land is now needed for the expansion of Euston Station to accommodate the terminal for HS2 – the high-speed train between London and Birmingham – so the gardens were closed at the end of June 2017.

It is reported that Flinders' remains will now be examined by osteo-archaeologists. They will be looking for lessons

as to how his life at sea affected his health and for anything else they may reveal about life in the late 18<sup>th</sup> and early 19<sup>th</sup> centuries. Captain Flinders will then be re-interred at a location still to be determined.

Matthew Sheldon, Head of the Curatorial Department at the National Museum of the Royal Navy in Portsmouth is quoted as saying: "Hopefully, thanks to his grave being rediscovered after nearly two centuries of being lost, people will also rediscover Matthew Flinders the explorer and he can take his place alongside many legendary Royal Navy explorers such as Cook, Franklin and Scott. We're glad his journey is now over." (<https://www.maritime-executive.com/editorials/workers-find-remains-of-first-sailor-to-circumnavigate-australia>).

## Nominations for Ordinary Members of SHNH Council 2019

Nominations are required for members of the SHNH Council. Presently serving Officers will be eligible for re-election. Elections will be held at the 2019 AGM in June.

Tenure is for three years for Ordinary Council members, who are expected to attend SHNH Council meetings (three a year) and to assist with other SHNH meetings and other business as arranged.

Nominations for Council should be proposed using the form overleaf or downloaded from the website. Nominations require two additional signatures from members in support of the candidate. The form should be sent by email to SHNH Secretary Geoffrey Hancock at [secretary@shnh.org.uk](mailto:secretary@shnh.org.uk) or by post to the address below by 14 April 2019.

Send to:

E. Geoffrey Hancock  
SHNH Secretary  
The Hunterian  
University of Glasgow  
Glasgow G12 8QQ

The rules governing the appointment of Councilors may be accessed on our website at:  
<https://shnh.org.uk/society-history-natural-history/society-governed/society-rules/>

**The deadline for submissions is 14 April 2019.**

## Nomination Form for Ordinary Members of SHNH Council 2019

Name of Nominee: \_\_\_\_\_

Email of Nominee: \_\_\_\_\_

**Proposed by:**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Email: \_\_\_\_\_

**Supported by:**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Email: \_\_\_\_\_

**Supported by:**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Email: \_\_\_\_\_

**The deadline for submissions is 14 April 2019**

The form can be downloaded from the Society's website at  
<https://shnh.org.uk/council-elections/>

Nominations should be posted to the address below or emailed to the Society's  
Honorary Secretary at [secretary@shnh.org.uk](mailto:secretary@shnh.org.uk)

Send to: E. Geoffrey Hancock  
SHNH Secretary, The Hunterian, University of Glasgow, Glasgow G12 8QQ

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## John Thackray Medal 2019

Instituted in 2000 to commemorate the life and work of John Thackray, Past President of the Society, this medal is awarded for a significant achievement in the preceding three years in the history of those areas of interest to the Society, that is the biological and earth sciences in the broadest sense.

All SHNH members in good standing are invited to make nominations for the 2019 award using the form (see over). Nominations should be sent to the Honorary Secretary, with an accompanying letter.



Nominations must indicate the item and the producer to be nominated and include the name and contact details of the person submitting the nomination. Please include a brief statement on the nature of the significant achievement involved and describe how the Prize Committee can obtain supporting evidence, such as publication details or photographs of exhibitions, etc. The Committee may ask for the loan of such evidence to support the Committee in its discussions.

The rules governing the award of The John Thackray Medal may be accessed on our website at <http://shnh.org.uk/awards-honours-medals/john-thackray-medal/>

**The deadline for submissions is 31 July 2019.**

## John Thackray Medal 2019

I wish to nominate: \_\_\_\_\_

For: \_\_\_\_\_

My name: \_\_\_\_\_

My address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

My phone no. \_\_\_\_\_

My email: \_\_\_\_\_

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

The form can be downloaded from the Society's website at  
<https://shnh.org.uk/awards-honours-medals/john-thackray-medal/>

Entries and all accompanying paperwork should be emailed to the Society's  
Honorary Secretary - [secretary@shnh.org.uk](mailto:secretary@shnh.org.uk)

Registered Charity No. 210355





## SHNH SMALL RESEARCH-FUND

The SHNH Small Research Fund is to provide financial support to non-professional members of the SHNH in all fields covered by the society's charitable purpose in carrying out research to benefit the scholarly community. A "non-professional" is regarded as having no gainful specific employment as a historian or bibliographer for the specific purpose of the proposed research.

Application must be made (before incurring the expense requested) using the pro-forma in the newsletter or on the SHNH website. This must be sent to the SHNH Secretary, who will then forward it to the Small Research-Fund Co-ordinator for assessment by the Sub-committee.

### *Qualifying expenses for funding*

Examples are:

- Charges made for use of privately-owned or professional-association libraries or museums by non-subscribers.
- Charges made by libraries or museums for new scanning, photographing or photocopying essential materials.
- Charges made by photographic agencies, libraries or museums for providing pre-existing digital copies.
- Fees for image-publication rights.
- Cost of travel by public transport for an essential visit to a unique location of essential material.
- Non-professional researcher applicants must not already be in receipt of any grant, as a student or otherwise, that would cover the expenses applied for. Application must be made before the requested expense is incurred.

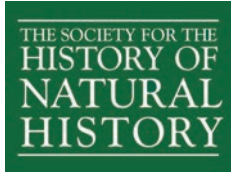
### *Further conditions*

### *How to apply*

- As long as you are not a professional historian or bibliographer (for the purpose of a specific research project), any member of the SHNH may apply for a Small Research-Fund grant, up to £100 (or non-Sterling currency equivalent). Please download the pro-forma application form, complete it and send to the SHNH Secretary at [secretary@shnh.org.uk](mailto:secretary@shnh.org.uk).
- This funding is a "last-resort" grant. Alternative "free-of-charge" sources of images or information must already have been investigated; if none can be identified, all reasonable efforts must also have been made to obtain funding elsewhere before applying to the SHNH.
- It must be the applicant's intention to publish in the scholarly press or on a website any images or information obtained through an award; the SHNH Secretary must be informed of publication when completed.
- Dated receipts must be obtained for expenses.
- Costs involved in attendance at conferences do not qualify.
- Costs of coloured illustrations in the printed *Archives of Natural History* do not qualify.
- The decision of the SHNH on an application for a Small Research-Fund grant shall be final.

### *Eligibility*

- There is no upper age limit; no academic qualification is required; nor is any academic affiliation necessary. But no more than one application per person may be made in any financial year of the SHNH.



SHNH SMALL RESEARCH-FUND  
APPLICATION FORM

Please complete and send to SHNH Secretary at [secretary@shnh.org.uk](mailto:secretary@shnh.org.uk) or post to  
The Secretary, The Society for the History of Natural History,  
c/o the Natural History Museum, London SW7 5BD, UK.

Name and title: \_\_\_\_\_

Address: \_\_\_\_\_

E-mail address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Member of SHNH? Yes ☐ No ☐

Employed as historian/ Yes ☐ No ☐

bibliographer for purposes of this research? Yes ☐ No ☐

Already receiving a grant covering requested expense? Yes ☐ No ☐

Has this expense already been incurred? Yes ☐ No ☐

Nature of expense for which funding sought:

Are there any free-of-charge alternatives? Yes ☐ No ☐

What other sources of funding have been investigated?

Amount (£) requested: \_\_\_\_\_

Have you made any previous application to *SHNH* for this purpose? If yes please give date of application: Yes ☐ No ☐

Proposed place of publication of research: \_\_\_\_\_

Signed: \_\_\_\_\_

Date: \_\_\_\_\_



## Become a member of SHNH

### Patron

Sir David Attenborough OM CH FRS

*"Anyone who loves the history of natural history will find a warm welcome."*

Professor Janet Browne

Harvard University

SHNH – The Society for the History of Natural History welcomes as members everyone with an interest in the history of natural history, natural history collections, exploration, art and bibliography, for all period and cultures.

The Society publishes an internationally respected journal *Archives of Natural History*. It is published for the Society by Edinburgh University Press, a highly respected, independent voice. Members have free online access to all issues of *Archives* published since 1936.

The Society also produces an informative newsletter which announces forthcoming events, provides a forum for notes and queries, offers notice of new publications, and much more.

We design meetings for wide audiences and provide time for discussion, social events and 'behind the scenes' visits. Venues include Liverpool (2018), Cumbria (2017), Norwich (2016), Oxford (2014), Exeter (2013), North America, (2013), London and Cambridge (2012). We also co-sponsor special conferences.

Our international network of representatives connects the Society with local events and provides regional contacts. Their contact details are provided on our website.

### How to join

SHNH has three categories of membership: Individual, Dual and Associate. Subscriptions are managed by Edinburgh University Press. Institutions and Libraries are invited to enquire about print and online subscriptions from EUP.

- **Individual:** receives the printed copy of *Archives* and the *Newsletter* as well as free online access to all issues of *Archives*. UK: £34; Europe: £41.50; ROW £46; North America US\$78.
- **Dual:** for two people at the same address who receive one printed copy of *Archives* and the *Newsletter* as well as free online access to all issues of *Archives*. UK: £44; Europe: £51.50; ROW £56; North America US\$95.
- **Associate:** for full or part-time students (under 30) who receive free online access to all issues of *Archives* and the *Newsletter*. UK: £11.50; Europe £19.00; ROW £23.50; North America US\$40.

### To join the Society, please

- call the EUP Subscriptions Department on +44 (0)131 650 4196, or
- email [journals@eup.ed.ac.uk](mailto:journals@eup.ed.ac.uk). We do not recommend sending credit card details by email.

[www.shnh.org.uk](http://www.shnh.org.uk)

## SHNH Membership Payment Options & Contact Details

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# william T. stearn prize 2019



The  
**W. T.  
STEARNS** prize  
is awarded to the best  
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in the field of the history of  
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is open to undergraduate and  
postgraduate students in full or  
part-time education.

The winner receives £300 and one year's free membership of the Society for the History of Natural History (SHNH).

The winning essay will normally be published in the Society's prestigious journal *Archives of natural history*.

Rules for entry and an entry form can be downloaded from the SHNH website.

**Deadline for submissions is  
30 June 2019.\***

\*Entry is not limited to members of SHNH.

[www.shnh.org.uk](http://www.shnh.org.uk)

THE SOCIETY FOR THE  
HISTORY OF  
NATURAL  
HISTORY



## Society for the History of Natural History

The Society for the History of Natural History is a friendly international society for everyone who is interested in natural history in the broadest sense. This includes botany, zoology and geology as well as natural history collections, exploration, art and bibliography. Everyone with an interest in these subjects – professional or amateur – is welcome to join.

The Society was founded in 1936 by a small group of scientists, librarians and bibliographers centred on the British Museum (Natural History) in London. The Society is still closely associated with the Museum, now the Natural History Museum, which contains the national collections of natural history specimens and has a strong tradition in the historical study of these collections.

Since its modest beginnings, the Society has grown in membership and international standing. It is known for its friendliness and provides a focal point for the history of all aspects of natural history. The Society also has a thriving international membership and representatives in North America, Europe and Asia organise local meetings. An International Meeting is held at regular intervals, the most recent being at the World Museum, Liverpool in 2018.

The Society's main publication is *Archives of Natural History*, produced twice a year, and distributed free to all members. It contains refereed, illustrated papers and book reviews and is published for the Society by Edinburgh University Press. All volumes published since 1936 are now available online. A more informal *Newsletter* is published two or three times a year.

For more information contact the Secretary, Society for the History of Natural History, c/o the Natural History Museum, Cromwell Road, London SW7 5BD, UK or by email at [secretary@shnh.org.uk](mailto:secretary@shnh.org.uk).

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### Newsletter 115 January 2019

**Editor:** Elaine Shaughnessy

**Email:** [webmaster@shnh.org.uk](mailto:webmaster@shnh.org.uk)

### COPY DATE

The copy date for the next *Newsletter* is 1 May 2019.

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# Worlds of Natural History

EDITED BY

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J. A. Secord and E. C. Spary*