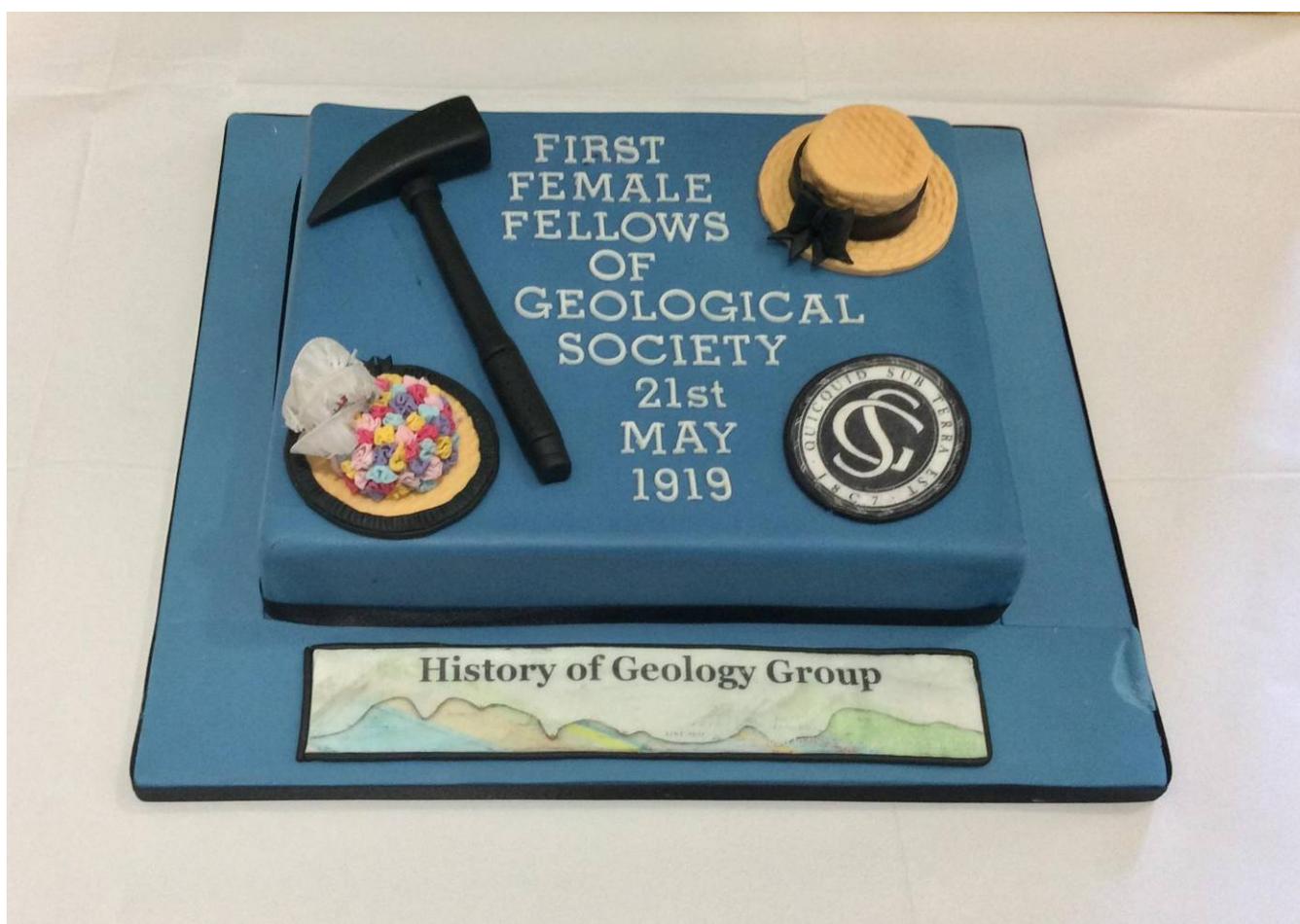


HOGG

**Newsletter of the
History of Geology Group
of The Geological Society**



**Number 66
June 2019**

Front cover

The celebratory cake, marking the centenary of the first female fellows of the Geological Society, which was cut during the HOGG meeting at Burlington House on 21st May (see P.6 of this newsletter). Made by a single mother starting up her own business (Coral Estate of Chester), the design and colour of the cake symbolise 'blue-stockings' geological fieldwork.

Image: courtesy Duncan Hawley

Editorial subcommittee

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The HOGG newsletter will be issued in February (copy deadline 31st January), June (copy deadline 31st May) and October (copy deadline 30th September).

Past newsletters are available at <http://historyofgeologygroup.co.uk/newsletter/> and <https://www.geolsoc.org.uk/hogg-newsletters> .

HOGG NEWSLETTER 66

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LETTER FROM THE CHAIR

I was reading the HOGG constitution (as Chairpersons are obliged to do) and the opening statement declares that “The History of Geology Group was formed in October 1994...”. Those of you who are quick with dates (as the historian in us perhaps ought to be) will have realised that this means HOGG is approaching its 25th Anniversary. There are a few months to go before we really should commemorate our founding and I anticipate the next Newsletter (October) will adopt an appropriately celebratory tone. But, before then, I should share at least two things that will be part of our anniversary activities.

Firstly, you will know that a full set of HOGG newsletters are available for download from the HOGG website (the first was issued in January 1995). However, the same cannot be said for the Abstract booklets produced for each HOGG meeting. To date, HOGG has organised 73 meetings (the 75th will be our 25th anniversary meeting). Currently, we only have 15 of the abstract booklets for these in digital form and another 32 paper copies that can be scanned and digitised; this leaves 26 abstract booklets ‘missing’. My aim is to fill the gaps so that by our 25th anniversary we can make all the abstract booklets of past meetings available as downloads. After all, they represent the history (or a significant part of it) of HOGG, and we should have a record.

So, here is an appeal for HOGG members to fill the gaps. In particular, we are missing booklets from the first 10 years of HOGG meetings, between 1995 and 2004, although we also need some issues from our later years too. In addition, a few of the paper copies we have contain notes and scribbles—these can probably be erased, but a clean copy would be better to work with. If you have copies of HOGG abstract booklets, please do contact HOGG Secretary John Henry at john@geolmaps.com listing your copies (title and year). John will contact you about arranging to send your copies if needed. I do hope HOGG members can help with this. All being well, we will end up with a complete backlist in our archive.

Secondly, there is a HOGG meeting in October this year (see P.13 of this newsletter), which will take place in an elegant and historic city that, arguably, was one of the ‘crucibles’ of geology in England. York was the venue for the first meeting (in 1831) of the British Association for the Advancement of Science (BAAS), which was dominated by geological reports and debates. York was the place John Phillips made his work base and stable home over much of his peripatetic career as a jobbing geologist, until he moved to Oxford in the latter part of his life. Neither the BAAS nor John Phillips arrived in York through serendipity—the city was already well known as a focus for geological interest through the activity of the Yorkshire Philosophical Society (YPS) and the museum it established. Key figures congregated in York. There is thus plenty of important history linked to the development of geology to hear about, to view and to explore in York. The title of the meeting is *The genesis of geology in York and beyond* and I am delighted that the present-day YPS and the York Museums Trust are working in association with HOGG to present its 25th anniversary meeting. The keynote speaker will be a renowned author of popular history of geology books, Roger Osborne (*The Floating Egg, The Deprat Affair*), who will talk on the early fossil trade of the Yorkshire coast. And the dates—23rd October for the meeting and HOGG AGM with optional celebratory evening dinner, and a further optional anniversary field day on 24th October. The registration cost for the talks/viewing day, which includes admission to the Yorkshire Museum Jurassic World exhibition and historical notes on the exhibits, is excellent value at only £25 for HOGG members. There is no extra cost for those who stay for the optional field day. Keep an eye on the HOGG website for further details and online registration for the meeting. I cannot think of a better place to celebrate!

Before all this, we have our next meeting in July in Edinburgh (see P.11 of this newsletter)—another elegant city that was one of the crucibles of geology in Scotland and beyond. Come to think of it, perhaps both Edinburgh and York are very deserving locations for HOGG meetings in our 25th year!

Duncan Hawley
e mail duncan.hawley@gmail.com

June 2019

HOGG COMMITTEE 2019

Chairman Duncan Hawley **Vice Chairman** Geoffrey Walton **Secretary** John Henry
Treasurer/Membership Secretary David Earle **Ordinary members:** Cynthia Burek, Beris Cox
(**newsletter**), Jill Darrell, Cherry Lewis (**website**), Nina Morgan, Peter Riches

HOGG WEBSITE

Our main website <http://historyofgeologygroup.co.uk/> is up and running again, and continues to be upgraded. This provides easy access to all aspects of HOGG including details about our meetings and the facility for online registration and payment, as well as subscription renewal. We also have a presence at www.geolsoc.org.uk/ where you will find some useful resources.

HOGG NEW MEMBERS

HOGG welcomes the following new members

Deborah (Debby) Matthews (Lewes, Sussex; [see P. 20 for further details of interest](#))

David McIntyre (Auckland, New Zealand)

Graham McIntyre (Edinburgh)

Alan McKirdy (Auchterarder, Perthshire & Kinross, Scotland)

Maira McKirdy (Auchterarder, Perthshire & Kinross, Scotland)

NEW LOWER SUBSCRIPTION RATE FOR YOUNG MEMBERS

You will undoubtedly be pleased to note that the fee for ordinary membership of HOGG remains at £15, and we have no plans in the immediate future to raise this. HOGG relies on membership fees to generate a working capital that helps underwrite the cost of our meetings, keeping the registration fees for meetings down, and also generating modest publicity materials that ‘spread the word’—and we do want to ‘spread the word’.

At the recent reception for the launch of the book *William Smith's Fossils Reunited* in the Lower Library at the Geological Society, some wag was heard to comment “History of Geology is a very grey affair”—and they didn’t mean that the history of geology is boring or without controversy. Looking around the room, the wag had a point! It is easy to assume that people interested in history are generally the ‘older and wiser’ of the population—those who can appreciate the meaning of looking back in time by reflecting on their lifetime of experiences. However, this would be a wrong assumption as anyone watching the myriad of history documentaries on TV will know; a fair proportion are presented by historians that don’t have grey hair!

HOGG needs to encourage a younger generation to join our ranks. Although HOGG membership fees are relatively modest, it can be tricky for students or post-graduates or early career workers on tight financial budgets to commit an extra cost required for joining HOGG. It is with this in mind that (as noted by Tom Sharpe in his Chair’s Report at the last AGM) we are introducing a new category of HOGG membership for any person aged 30 or under (a ‘Young Member’) priced at £5 a year. The rest of us remain ‘Ordinary Members’ at £15 per year. Subscriptions are due each year on 1st January (or closest date thereto). If you do not already pay by standing order, please consider doing so. Simply complete the form at the back of this newsletter (P.23).

Do encourage young people to join HOGG—membership will surely enhance their knowledge of geology as a science, not least in understanding the why, how and when in the development of geological ideas, but also in appreciating the social context and the intellectual struggles that produced our present-day state of knowledge. And a greater input by young members will almost certainly bring different perspectives to the history of geology (perhaps less focussed on ‘the golden age’?). They will also make HOGG less grey!

[Duncan Hawley]

COMMITTEE MEMBERS WANTED

HOGG’s committee comprises ten individuals who each serve for three years. In the normal course of events, two committee places will become vacant each year as members’ terms conclude. To become a committee member, you need to be proposed by a HOGG member and that proposal needs to be seconded by another HOGG member. The main thing is to indicate your interest (by contacting the HOGG Secretary John Henry: email john@geolmaps.com), and the rest can follow. If more volunteers step forward than there are places, an election will take place and the results will be announced at the Annual General Meeting, which this year will take place during our meeting in York on 23rd October.

A committee member is expected to bring a meeting or project idea and, within their term, to make it happen. We aim for three meetings—conferences or field trips—a year, at least one being out of London. There is plenty of support from the committee and, in turn, you will be expected to help with other meetings as the need arises. The committee meets four times a year at the Geological Society (Burlington House) and travel expenses are paid with a ceiling of £90 per meeting.

The chair, secretary and treasurer are elected from within and by the committee for a term of three years.

HOGG is an unusual group as its members come from diverse backgrounds within geology but are united by their interest in the history of ideas and the individual geologists who have worked before and up to our time. Bring your interests to the committee and perhaps make more of them, and assist in the programme of events that we plan together.

[John Henry]

OBITUARY

Gordon Leslie Herries Davies (1932–2019)

MA (Dubl., Manc.), PhD (Dubl.), FTCD (Emeritus), Retired Professor of Geography TCD,
Elected Royal Irish Academy 1979

The following tribute by Arnold Horner is taken from a post on the Geographical Society of Ireland website (13/03/19)

www.geographicalsocietyireland.ie/gsi-news/in-memory-of-gordon-herries-davies-1932-2019



“Gordon Davies, otherwise Gordon Leslie Herries Davies (he favoured the latter form from the late 1970s), who died on 22 February 2019 was one of the most significant figures ‘doing Geography’ in Ireland during the second half of the last century. A graduate of the University of Manchester, Gordon became an assistant lecturer at Trinity College Dublin in 1954. His association with the college as lecturer and later professor, extended over five decades. Gordon’s teaching remit initially centred on physical geography, particularly geomorphology, but his other offerings included courses on the history and philosophy of geography, and his research interests eventually combined and expanded on these areas.

Those who took his courses will remember him as a much-respected, distinctive and original teacher, who was accessible to, and respectful of, his students—a person who was on occasion truly inspirational. Gordon was the author of numerous articles, and several major books, among them *The earth in decay* (1969, a history of geomorphological studies), *Sheets of many colours* (1983, on Irish geological mapping), *North from the Hook* (1995, on the Geological Survey of Ireland), and *Whatever is under the Earth* (2007, on the Geological Society of London).

He also edited several major volumes, including a series of essays on Richard Griffith (1980) and the Golden Jubilee volume of *Irish Geography* (1984). From 1968 to 1978, he was editor of *Irish Geography*, and later he was an editor of the *Annals of Science*. Gordon initiated and was active in a wide range of intellectual projects in Ireland and abroad. His original opinions, his wide-ranging knowledge and his innate curiosity about the past and about studying the physical world helped make him a true scholar. At the same time, he cultivated a distinctive writing style that consciously sought to make his work accessible and readable, as well as rigorous, for the widest audience. As well as editing *Irish Geography*, Gordon served the Geographical Society of Ireland as president from 1962 to 1964. He was a committed and enthusiastic supporter of the Society and of Geography in general over a much longer period. He was also very much committed to Trinity College Dublin and to such organisations as the Royal Irish Academy. In recent decades, he lived in Tipperary and on North Uist, Outer Hebrides, a place that he first visited in the 1950s.



Gordon will be remembered with respect and affection by those who had the good fortune to learn from, and interact with, him as a geographer.”

Gordon was a long-standing member of HOGG and no doubt The Geological Society will publish its own obituary in due course.

Image © GSL



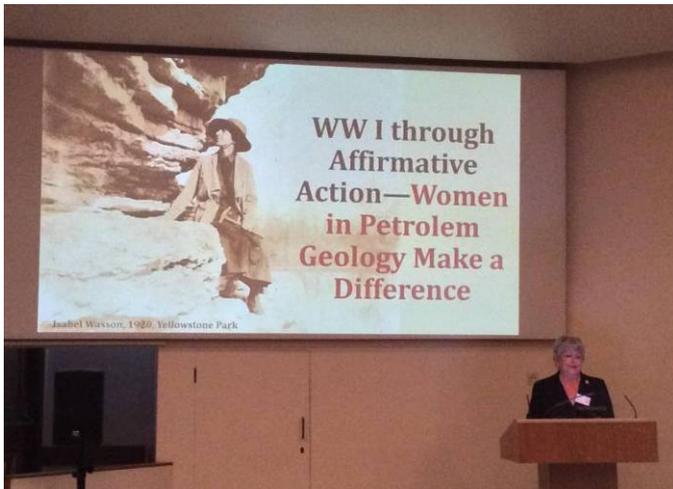
CONFERENCE TO CELEBRATE THE CENTENARY OF THE FIRST FEMALE FELLOWS OF THE GEOLOGICAL SOCIETY LONDON

*Peter Lincoln¹ reports on the HOGG meeting held at Burlington House, Piccadilly,
London on Tuesday 21st May 2019*

As a relatively new member of HOGG and being neither geologist nor female, I accepted the task of reporting on this conference with some diffidence. I felt bound to get the geology wrong and was concerned lest I should fail to evince an acceptable understanding of feminist theory. But in the event, the small amount of geology was largely comprehensible, even to me, and the only feminism I detected was of a robustly practical and common-sense variety. I need not have worried!

The conference was billed as a day of celebration and so it proved to be. It was a privilege to be present. Given the subject, it was perhaps hardly surprising that 80% of the contributors were female and that the audience was, by my reckoning, weighted two to one in favour of women. Wary of drawing conclusions from such evidence, I nevertheless hope that it didn't imply a lack of interest on the part of my own sex, it certainly shouldn't have done. Over the course of the day, we were treated to a succession of inspirational life histories of geologists whose work has often been hidden from view—sometimes because they happened to be women. It is fitting that the papers from this conference will be published by the Geological Society as a *Special Publication*.

The conference began with a scene-setting keynote address by **Robbie Gries**, current President of the Geological Society of America. Robbie used a chart of 20th Century employment statistics to



show how, until the inception of affirmative action in 1973, women were accepted into her own industry only in times of war or in capacities considered most suited to their feminine talents. Thus, although many women distinguished themselves in the (geological) field during the two world wars, their contribution between 1919 and 1939 was largely limited to the more decorous analysis of micro-paleontological data—it is tempting to suggest many analogies here with Harvard Observatory's women 'computers' at the turn of the last century. Striking a chord that would resonate

throughout the day, Robbie also emphasised that right up until the early 1970s, a woman, however talented, was usually expected to retire from paid employment the instant she married.

There then followed a series of 'firsts'. **Glynda Easterbrook** (formerly The Open University) opened with a fond account of her one-time supervisor Janet Watson, the first female president of The Geological Society, after whom the lecture theatre in which we sat was named. Many readers will be aware that the science library at UCL is named in honour of Janet's father, D M S Watson. Fortunately, in Janet's case, marriage to fellow geologist John Sutton did not interfere with her career, which culminated in the award of a personal chair at Imperial College. Perhaps the die was cast when the couple spent much of their honeymoon making a geological survey of Sark?

After the morning coffee break, we moved from first female President (in 1982) to first female Fellow (in 1919) as **Cynthia Burek** (University of Chester), one of the conference organisers,

described the life of Margaret Crosfield who was elected to Fellowship one hundred years ago to the day. Margaret was an educated and highly-trained geologist who contributed much to the stratigraphy of parts of Wales and the border country. Her work was, however, privately motivated and self-funded, and thus essentially ‘amateur’. Her election to the Society was therefore particularly important to her, providing the recognition that she undoubtedly deserved.

The last ‘first’ was the travel writer and woman of letters Maria Graham (1785–1842), the first woman to be published in the Society’s *Transactions* (1824). Although her work was rudely dismissed by George Greenough, **Carl Thompson** (University of Surrey) showed us that Maria’s account of the 1822 earthquake in Chile was a model of scientific observation and that she was a competent and systematic observer.

Having celebrated these milestone ‘firsts’, the remaining speakers provided a survey of geological women. **Martina Kölbl-Ebert** (SNSB-Jura-Museum Eichstätt, Germany) began by reminding us that despite their numerous ‘disabilities’ many women did make informed and substantial contributions to geology as far back as the early 19th Century. However, as **Mary Orr** (University of St Andrews) then emphasised, taking Eliza Gordon-Cumming (1815–1842) as her example, their work was for the most part concealed by their male contemporaries. Often, it is only by careful analysis of footnotes and other textual indicators that the extent of their expertise and involvement becomes apparent. Moving beyond mainland Britain, **Susan Hegarty** (Dublin City University) discussed the spread of geological knowledge in Ireland and the way in which lectures provided through the Geological Survey of Ireland contributed to the training of school-teachers and governesses.

After the lunch break, **Sue Turner** (Queensland Museum Geosciences, Australia) looked even further afield by providing a series of snapshots of ‘far-flung’ female Fellows who had overcome prejudice to forge careers across the world. **Consuelo Sendino** (Natural History Museum, London) examined the short geological career of Ida Slater (1881–1969) who travelled abroad in order to obtain her degree and forfeited her geological career in 1912 in order to be married and have children. **Kate Kiseeva** (University College Cork, with Anna Dymshits, Sobolev Institute, Novosibirsk) related the privations and injustices experienced by women at the dawn of diamond discovery in Siberia.

Jane Tubb (Open University, with Cynthia Burek) and **Jenny Bennett** (Devonshire Association, with John Mather, Royal Holloway) revealed that their respective subjects—Gertrude Elles (1872–1960) and Eileen Hendriks (1887–1978)—enjoyed much longer careers. Both worked on into a mildly eccentric old age. Gertrude was a distinguished and much-loved member of the Cambridge geological community and Eileen, who lived with her Alsatian dogs in a cottage on the Lizard peninsula, was justly celebrated for her contribution to the stratigraphy of Cornwall.

After the afternoon coffee break, **Cherry Lewis** (University of Bristol) took us through the life of Doris Reynolds (1899–1985), one of the shamefully few women to have been awarded the Society’s Lyell medal. Doris’s bold theory of ‘granitisation’ provoked much controversy throughout the 1950s and it in no way detracts from her stature as a geologist that it was eventually found to be incorrect. Another northerner, and winner of the Lyell medal, was Dorothy Rayner (1912–2003) who became the first, and so far only, woman to be President of the Yorkshire Geological Society; **Patrick Boylan** (City University London, and more recent occupant of the YGS presidential chair) provided a heartfelt appreciation of her life. **Bruce Hobbs** (University of Edinburgh, with Alan Jones, Complete MT Solutions Inc., Canada) spoke similarly warmly of his former colleague Rosemary Hutton (1925–2004), whose geophysical work at the University of Edinburgh has contributed so much to our understanding of the Earth.

It seemed doubly fitting that the final session of the day was given by **Bettie Higgs** (University College Cork), the second of the conference organisers, and that her subject was Marie Tharp (1920–2006). Bettie explained how, at Columbia University in 1952, Marie had been given the



tedious (but appropriately seemly) task of plotting 20 years' worth of soundings from the Atlantic Ocean. As this work progressed, Marie had recognised the rift that would eventually help establish the fact of continental drift/plate tectonics. At first, her male colleagues dismissed and even suppressed her results; but when the evidence became incontrovertible it was they who published the paper that announced it—Marie's name was notable only by its absence. And so, at the end of this celebration of a century and more of women geologists—some FGSs, others not

so honoured—we were confronted by a situation with which we can more easily identify than with the antiquated ways of the 19th Century. Marie Tharp died a little over ten years ago. Surely the injustice that befell her could never happen now!

Nowhere in the Geological Society's original Regulations, drawn up on 1st January 1808, does it expressly exclude women from membership. Like so much else at the time, it was simply assumed. Now, 100 years after that assumption was challenged and explicitly overturned, this conference has quietly posed the question whether we are now safe in assuming gender equality in geology—and whether there remain further unrecognised inequalities that need to be addressed.

Before the start of the lecture programme, and again during the breaks for coffee and lunch, we were able to look at a fine display of posters.



- **Cynthia Burek** (University of Chester) had prepared *Two forgotten female fellows of the Geological Society: Mabel Tomlinson and Isobel Knaggs, A Tale of two female geologists on GeoMôn Anglesey Geopark—Catherine Raisin and Annie Greenly, and The female Geological Society medal and Fund winners.*
- **Sandra Freshney** (Sedgwick Museum, Cambridge) had delved deep into the Sedgwick Museum archive to create *Being seen and heard: Archives, Women and Geology.* On a personal note, this poster included photographs and descriptions of 18 early female members of Cambridge University's Sedgwick Club, and I was delighted and surprised to find included the wonderful Muriel Arber, under whose tender care I thrived as a nine-year-old schoolboy.

- **Consuelo Sendino** (Natural History Museum, London) displayed her poster *Female aristocrats in the Natural History World* showing the contributions made by aristocratic women to collections that have subsequently become public.
- **Emma Jude** and **Luisa-Maria MacCormack** of the London Drawing Group/Big Art History project detailed an innovative initiative in public engagement which they had carried out at the Natural History Museum, London.

In addition, suspended from the gallery railing, were photographic portraits of significant women from the past in the fields of archaeology, palaeontology and geology. Collectively called *Raising Horizons*, the portraits were first exhibited in 2017 (see HOGG Newsletter 58, p.12). Each portrait was posed by a contemporary practitioner and accompanied by a detailed caption allowing the viewer to compare the situations of the two across the years.



After the formal proceedings, a reception was held in the lower library where a magnificently decorated (and very tasty!) celebratory cake—featured also on the cover of this newsletter—was cut by Cynthia Burek and Bettie Higgs

Following a moment or two to draw breath, a buffet dinner was then served, as reported here by HOGG Secretary John Henry: “*After the wine reception and the cake cutting, we had an excellent dinner in the Lower Library. About half of the attendees stayed to eat together. It was a hot buffet service, delicious and with second helpings of everything. Seated at the*

library tables, there were several animated conversations about the conference presentations. If our table was representative, discussions flowed about if and how much had changed since the historical experiences of several women geologists we’d heard of during the day. And, about tactics and strategies for meeting the male mind and diverting/changing it in the work place. I have not laughed so much in years. I’ve known for a long time through mother, sisters, wives, and daughters that it is difficult for the mere male to hold out for long; but how that was accomplished in the work sphere, as told by several of my dinner companions, was an education. In fact, the conference was a great learning experience about many individual women, their determination and obstacles overcome—historically and, around our dinner table, right up to the present. We had an excellent day and celebration with centenary cake at the wine reception, rounded off by an excellent dinner. Thanks to our co-convenors Cynthia Burek and Bettie Higgs for an enlightening and informative conference, and to the cake-maker and caterers.”

It was a very full, absorbing and well-run day and our thanks must go to all who contributed, to the staff at Burlington House and, most particularly, to the convenors Cynthia Burek and Bettie Higgs.

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Images courtesy of Duncan Hawley and Beris Cox



The centenary is also celebrated in a new exhibition—*The First Women*—now on display at Burlington House. The exhibition highlights just a few of the firsts achieved by women in both the science and the Geological Society—the first paper published by a woman, the first female Fellow, the first detailed geological map of Singapore, and the Society's first female President. The exhibition can be viewed in the Lower Library and Lyell Room at the Geological Society, Burlington House, Piccadilly, London, W1J 0BG until the autumn.

HOGG STUDENT TALKS SCHEME

CAN YOU HELP SPREAD THE WORD ABOUT THE HISTORY OF GEOLOGY?

The scheme aiming to offer HOGG talks to student geological societies, reported in the last newsletter, now has about 20 titles in the database—although currently these are spread amongst just a few presenters.

The scheme could do with more offers of talks and topics from a wider range of HOGG members. The idea is that presenters will only be called upon once every year or so. However, there needs to be a sufficient pool of presenters to spread the load. Presenters will have their travel expenses reimbursed, but there is no speaker's fee.

If you can offer a talk on a history of geology topic, please contact HOGG Chair duncan.hawley@gmail.com with a title, a brief outline/abstract (a paragraph) and the geographical area which is reasonable for you to cover. Duncan will coordinate talks and contact you to arrange a suitable university and date as appropriate.

HOGG MEETING GUIDELINES

One of the aims of HOGG is to hold meetings, conferences, seminars and workshops in order to advance the study and understanding of the history of geology. HOGG committee have set up guidelines for the organisation of the meetings. These are not policy or fixed rules, but offer an aspirational steer on the practical parameters to a meeting.

In any normal year, there are at least three HOGG meetings and our guideline is to have one meeting based in London (usually at the Geological Society), one further afield away from the 'metropolis' and one meeting 'in the field'. It is possible, of course, that in some years we might organise more than three meetings. Adhering to this sort of geographical spread should help reflect the diversity in the history of geology across the British Isles, and keep the meetings' programme interesting for members.

Our guideline for registration fees is to have, where possible, the cost for HOGG members at £45 or less, although HOGG Committee also has to try and ensure a meeting does not run at a financial loss. The Committee is mindful that there can be extra 'hidden' costs to attending meetings, such as train fares or an overnight stay. Speakers and contributors to HOGG meetings usually pay the full registration fee; HOGG is generally not in a position to defray conference costs for presenters or to offer travel expenses. If we did, then many of our meetings would only accrue half the income and the fee would likely be doubled for all others attending the meeting! Of course, a higher number of delegates attending a meeting creates a better situation for keeping registration costs down as it usually means we cross the projected deficit/surplus threshold. It is always a fine calculation—and not without risks! Collaborating with 'sister' organisations in arranging meetings can help spread the load and keep costs down.

[Duncan Hawley]

FUTURE HOGG EVENTS

*** ASPECTS OF THE HISTORY OF GEOLOGY IN SCOTLAND AND THE NORTH OF ENGLAND**

11th–12th July 2019

Joint meeting with Edinburgh Geological Society

Surgeons' Hall, Nicolson Street, Edinburgh

See below for details and P.21 for registration form.

*** THE GENESIS OF GEOLOGY IN YORK AND BEYOND**

Joint meeting with Yorkshire Philosophical Society and York Museums Trust

23rd–24th October 2019 including HOGG AGM

Marriott Room, York Explore, Library Square, York YO1 7DS

See below for further details and P.22 for registration form.

*** GEORGE BELLAS GREENOUGH MAP BICENTENARY**

6th–8th May 2020

University College and Burlington House, London

See P. 14 for further details.



**ASPECTS OF THE HISTORY OF GEOLOGY IN
SCOTLAND
AND
THE NORTH OF ENGLAND**



Joint meeting with the Edinburgh Geological Society

Deacon Suite, Surgeons' Hall, Nicolson Street, Edinburgh EH8 9DW

Thursday 11th–Friday 12th July 2019

Convenor: Tom Sharpe tom.sharpe@me.com

PROGRAMME

THURSDAY 11TH JULY

Presentations and talks based at the historic Surgeons' Hall in the centre of Edinburgh.

10.30 COFFEE

11.00 Introduction and welcome

11.05–11.30 Beverly Bergman *James Hutton: the man and his family.*

11.30–11.55 Michael A. Taylor *Edinburgh Museum's dinosaur, Waterhouse Hawkins' Hadrosaurus foulkii.*

11.55–12.20 Rachel Walcott *Lost and found: insight into changing geological trends as represented by the National Museum Scotland collection.*

12.20–12.45 Phil Stone *Robert Jameson's geology in 1830s Edinburgh as recorded by his students, particularly Robert McCormick, R.N.*

12.45–14.00 LUNCH

14.00–14.25 Roy McIntyre *Trap rocks on William Smith's maps.*

14.25–14.50 Tom Sharpe *Henry De la Beche's 1816 tour of Scotland.*

- 14.50–15.15 Simeon Brown *History of Onshore Oil Exploration in Scotland and Northern England, 1818–2018.*
- 15.15–15.40 Tom Cotterell *The early history of witherite and its type locality.*
- 15.40–16.10 TEA
- 16.10–16.30 Cherry Lewis *Robert Ferguson of Raith (1767–1840): his involvement in the early Geological Society.*
- 16.30 Concluding remarks
- 17.30 CLOSE

For those staying over in Edinburgh, an informal group dinner can be arranged on the evening of Thursday 11th July. Please indicate your interest when registering.

FRIDAY 12TH JULY

Optional Field Visits. Please indicate your interest when registering

A morning and afternoon stroll, each of two hours, around Edinburgh's Old and New Towns to explore some important sites connected with the history of geology. All of the walking will be on pavement, with some steps and hills. The excursion will finish at around 16.00hrs.

10.00 Meet on Waterloo Place, at the foot of the steps up Calton Hill (opposite St Andrew's House). Leader: Andrew McMillan (Edinburgh Geological Society).

This walk will examine the varied geology of the north side of the city (New Town), its building stones and sites of interest to historians of geology. A visit to Calton Hill which provides the classic view towards Castle Rock and the Old Town will be included.

12.00 Break for lunch

14.00 Meet in the café in the foyer of the National Library of Scotland, George IV Bridge, for a wander through the Old Town where we will visit James Hutton's grave and look at some 'monumental geology' in one of Edinburgh's best-known graveyards. We will then see some well-preserved fossil fish and other sites of geological and historical interest on the South Side, including the site of Hutton's house. Led by Beverly Bergman (Edinburgh Geological Society).



Where possible, other places associated with Hutton and his Enlightenment contemporaries will be included (dependent on the state of public works and scheduled access).

16.00 End

REGISTRATION

Registration fee includes abstract booklet, refreshments and lunch at Surgeons' Hall. Lunch is not provided on the field visit but the lunch stop will be in an area with plenty of refueling options.

Non-members (to include HOGG membership for the current year) £50.00

GA & GSL members £45.00

HOGG, Edinburgh GS & Glasgow GS members £40.00

Field visit on 12th July FREE

Please complete the registration form on P.21 of this newsletter or book online at <https://historyofgeologygroup.co.uk/scotlandmeeting/>



THE GENESIS OF GEOLOGY IN YORK AND BEYOND
HOGG 25th ANNIVERSARY MEETING
in association with the **Yorkshire Philosophical Society** and
supported by **York Museums Trust**
23rd–24th OCTOBER 2019



Venue: Marriott Room, York Explore, Library Square, York YO1 7DS

Convenors: Duncan Hawley duncan.hawley@gmail.com and
John Henry john@geolmaps.com



PROGRAMME

Wednesday 23rd October

- 10.00 Registration and coffee
- 10.30 Welcome and Introduction (house arrangements)
- 10.40–11.20 **KEYNOTE TALK Roger Osborne** *Follow the reptile: Fossil trading on the Yorkshire coast and what it tells us about science and money*
- 11.20–11.40 **Peter Hogarth** *Geological connections in the early Yorkshire Philosophical Society*
- 11.40–12.00 **John Mather** *The Harrogate wells case of 1837 and a gathering of the scientific elite*
- 12.00–12.20 **Margaret Leonard** *Scripture and Science: The Dean of York's critique of Buckland and Sedgwick's riposte.*
- 12.20–12.40 **John Henry** *John Phillips and the first chromolithograph geological map in Britain*
- 12.40–13.00 **Duncan Hawley** *The Yorkshire Boulder Committee—an erratic affair.*
- 13.00–14.00 **LUNCH**
- 14.00–14.20 **HOGG AGM**
- 14.20–16.50 **Viewing tours and discussions: Yorkshire Museum collections**
4 x 30 minute sessions + 10 minutes swap-over.
1. ***Kirkdale Cave specimens—fossils from Buckland's Reliquiae Diluvianae***
YMT Assistant Curator Stuart Ogilvy & YPS volunteers
 2. ***Yorkshire Museum's William Smith map of England and Wales***
YMT Curator Sarah King & Duncan Hawley
 3. ***Mosaic Smith's map of Yorkshire+Calotype of De La Beche***
Rod & Margaret Leonard, Project Coordinators
 4. ***Yorkshire Jurassic World Exhibition***
Self-guided tour with specially produced collector/provenance leaflet on exhibits.
- 19.30 **HOGG 25th Anniversary Dinner** (Optional)

Thursday 24th October **Field Day** (Optional) with shared car transport

- AM **Kirkdale Cave, Vale of Pickering:** visit and virtual tour of the site (inside the cave) of Buckland's main source of evidence for 'Reliquiae Diluvianae'
- PM **Rosedale Iron Mines:** the production of the raw material creating northern steel prosperity and its prospects during war-time.

Registration form on P.22 of this newsletter or book online at <http://historyofgeologygroup.co.uk/>

**GEORGE BELLAS GREENOUGH MAP BICENTENARY MEETING
6th–8th MAY 2020**

UNIVERSITY COLLEGE and BURLINGTON HOUSE, LONDON

The event to celebrate the bicentenary of the publication of the Geological Map of England and Wales by G. B. Greenough (also known as ‘the Geological Society’s map’) will take place on Wednesday 6th May and Thursday 7th May, with a further ‘field’ day on Friday 8th May 2020.



The first day (Wednesday 6th) programme will be a conference held at the newly-refurbished Department of Earth Sciences of University College London (which is now in the Kathleen Lonsdale building). The Department are generously hosting the event, which will also be attended by a number of their alumni who are former members of the Greenough Society—the student geological society which is named after GBG. Greenough was a particular supporter of UCL—he was a subscriber (shareholder) in the original College and a number of other prominent early Geological Society Fellows were involved in its set up in 1826 and its subsequent governance.

A number of people have already pledged presentations about this map and other associated maps, and also on various aspects of Greenough’s life and work. However, a formal call for papers will be issued shortly. In the meantime, any HOGG member who wishes to flag up their interest in presenting a paper should email the convenor Duncan Hawley duncan.hawley@gmail.com

A bicentenary celebration dinner will be held in the splendid Jeremy Bentham Room at UCL, with the UCL Vice-Provost, Professor David Price (a mineralogist) in attendance.

The second day (Thursday 7th) programme will provide an opportunity to view and discuss original specimens and materials that belonged to GBG. The morning session plans to return to UCL to see minerals, rocks and fossils collected by Greenough and bequeathed to the Geology Department (for teaching purposes). The afternoon will be at the Geological Society to view maps he used to collate geological information and his annotated drafts of the 1820 map and subsequent maps, together with some other artefacts. The aim is to help understand the process by which Greenough compiled and edited the map.

The Friday (8th) ‘field’ event plans to visit a range of sites around central London associated with G.B. Greenough, including his residence and his tomb.

The Department at UCL have a bust of Greenough, and the plan is to use the 3-D laser scanner in the Department to create an image that can be used with a 3-D printer to produce smaller scale ‘mini-Greenough’ busts for those attending the meeting.

HOGG has been working with the British Geological Survey to produce a high quality reproduction of the 1820 Greenough map and this will be offered in a limited number (200) subscription issue to HOGG members, with a reproduction of the map memoir plus accompanying explanatory commentary, all presented in a contemporary-style map box. The maps have been printed and folded as six sheets (as was the original). The subscription offer is likely to open early in 2020.

For further updates, please watch the HOGG website <https://historyofgeologygroup.co.uk/> and Twitter account <https://twitter.com/HOGGroup>

SAVE CHARLES LYELL'S NOTEBOOKS

John Henry¹

Following the death of the third Lord Lyell in January 2017, many of Charles Lyell's books and letters were sold at the Sotheby's auction in July 2018 as part of the family's need to meet inheritance tax. However, the sale of 294 of Lyell's notebooks (out of 297) was arranged by private treaty. This sale, to an anonymous individual in America, is subject to a temporary export ban which provides an opportunity to raise the funds necessary to buy it and prevent its export. For further information, see



(Image: Wikimedia Commons)

<https://www.gov.uk/government/news/notebooks-of-charles-darwins-mentor-at-risk-of-export>

The various institutions who might have wished to have the notebooks have decided to support the University of Edinburgh in leading the fund-raising and providing a home for the notebooks. This University already has the largest collection of Lyell material from a 1920's family bequest. The sum to be raised to acquire the notebooks is **£1,444,000**—more will be required for digitisation so that they can be made available to the public and researchers. I have met the fund-raiser, David McClay, and understand that he has already secured a third of this target from major philanthropists. The public appeal will be launched in Edinburgh on 14th June. The fund-raising website address is <https://www.ed.ac.uk/giving/save-lyell-notebooks/pledge-to-save>.

I understand that Lyell kept very complete, legible notes of all his observations and cross-referenced them to earlier notes and correspondence, and to what he had read. They are a biographer's dream. The University of Edinburgh intends to digitise the notebooks to put them on-line for the public together with their other Lyell material. They will also display Lyell's fossil and mineral collection. These notebooks have not been previously researched and represent a mine of information about the development of geological thinking. In the uncertain situation presented by an individual buyer who wishes to remain anonymous, it is vital to secure the notebooks to a reliable institution committed to making them accessible.

PLEASE SUPPORT THE APPEAL TO SAVE LYELL'S NOTEBOOKS!

¹ e mail john@geolmaps.com

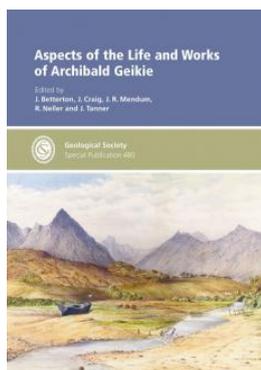


WILLIAM ARCHIBALD MACFADYEN (1893–1985)

The Geological Society Library has recently acquired the working documents of William Archibald Macfadyen (1893–1985), Britain's first professional geoconservationist.

The collection includes the notebooks, data cards, reports and correspondence relating to his work as chief geologist for the Nature Conservancy (1948–1971), surveying potential geoconservation sites around the country that could be designated as Sites of Special Scientific Interest (SSSIs) or National Nature Reserves (NNR). For further information or to consult the material, please contact the GS archivist (email archivist@geolsoc.org.uk)

BOOK AND MAP NOTES



Aspects of the Life and Works of Archibald Geikie

edited by J. Betterton, J. Craig, J. R. Mendum, R. Neller and J. Tanner

GSL Special Publication 480

GSL Publishing House. 2019

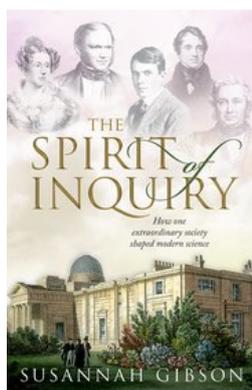
Published online 7th June (<https://www.geolsoc.uk/SP480> ; print copies due July)

ISBN 978-1-78620-402-8 hardback

List price £110 Fellows' price £55 Other societies £66

“Sir Archibald Geikie (1835–1924) was one of the most distinguished and influential geologists of the late nineteenth and early twentieth centuries. He was Director-General of the Geological Survey of Great Britain, President of the Geological Society of London, President of the British Association, Trustee of the British Museum and President of the Royal Society. He was also an accomplished writer, a masterful lecturer and a talented artist who published over 200 scientific papers, books and articles.

The papers in this volume examine aspects of Geikie’s life and works, including his family history, his personal and professional relationships, his art, and his contributions as a field geologist and administrator. Together, they provide a deeper understanding of his life, his career and his contribution to the development of Geology as a scientific discipline. Much of the research is based on primary sources, including previously unpublished manuscripts, donated in part by members of the family to the Haslemere Educational Museum, UK.” [publisher’s notes]



The Spirit of Inquiry

How one extraordinary society shaped modern science

Susannah Gibson

Cambridge University Press. 2019. 400pp.

ISBN 9780198833376 hardback RRP £25.00

“Despite its modest size the Cambridge Philosophical Society has played a monumental role in the history of science. To mark the bicentenary of its founding in 1819, Susannah Gibson gives a vivid account of the illustrious (and sometimes eccentric) members of the society, their breakthrough discoveries, and the forging of modern science.

- Celebrates the 200th anniversary of the remarkable Cambridge Philosophical Society
- Brings to life the many remarkable episodes and illustrious figures associated with the Society, including Adam Sedgwick, Mary Somerville, Charles Darwin, and Lawrence Bragg
- Reflects the shaping of modern science, as well as a changing Cambridge University, against the backdrop of profound social and intellectual transformation, from early Victorian times, through the world wars, to the present
- Offers background to current debates about the role of science in society” [publisher’s notes]

.....ALSO OF INTEREST?

- Archer, Jean B. 2019. A special stone for a very special pedestal. *The Edinburgh Geologist*, **65**, pp. 7–12. (available online at <https://edinburghgeolsoc.org/eg-pdfs/edinburgh-geologist-65.pdf>)
- Evans, Kevin R. 2019. Hugh Miller (1802–1856): Scottish Geologist, Popular Writer, and National Hero. *GSA Today*, **June 2019**, 36–37.
- Morgan, Nina. 2019. Distant Thunder: Pen to Paper. *Geoscientist*, **29(02)**, 28. [on Percy Fry Kendall (1856–1936) and writer’s block]
- _____ 2019. Distant Thunder: Beauty and Brains. *Geoscientist*, **29(04)**, 27. [on the early attitudes towards female geologists]
- _____ 2019. Distant Thunder: Equal opportunities. *Geoscientist*, **29(05)**, 26. [on equal opportunities and the Geologists’ Association]
-

EVOLUTION OF PALAEOONTOLOGICAL ART

Renee Clary¹, Dallas Evans and Gary Rosenberg are editing a volume on the *Evolution of Palaeontological Art*. The volume arises from the 2018 Geological Society of America T91 Evolution of Palaeontological Art topical session and will highlight the evolution of palaeontological visualization, “palaeo art”, including drawings, paintings, sculpture, and ultimately computer-generated graphics of fossil organisms, or extinct life.

From early illustrations of fossils, including William “Strata” Smith’s drawings of fossils, through Henry De la Beche’s first published renditions of ancient life in its reconstructed habitat (1830, *Duria antiquior*), to Charles Knight’s murals, and on to Michael Tric’s *Jurassic Park* animations, palaeo art has engaged the public and documented the evolution of palaeontological knowledge. This history of visualization is an important record of the history of palaeontological science, its changing perspectives and enduring insights, as well as reconstructions subsequently recognized as incorrect but which together have transformed our understanding of vanished worlds and their extinct inhabitants.

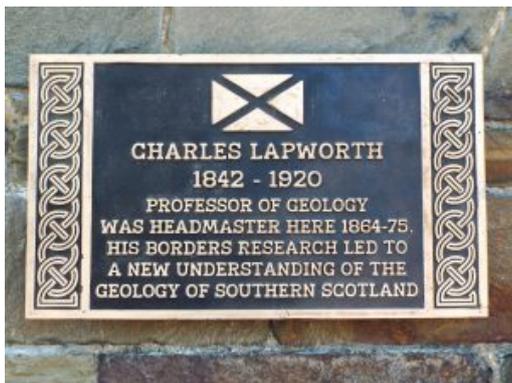
The volume will contain contributions from palaeontologists, geologists, historians, graphic designers, and artists, and will provide an opportunity for younger scientists and the general public to learn from the history and philosophy of scientific investigation, and how we reconstruct visual knowledge of life history. The editors are extending invitations to colleagues who have conducted research in

- history of geology and fossil sketches
- Deep Time reconstructions
- palaeontological sculptures
- modern palaeontological art
- design of museum exhibits that feature ancient life

To express an interest in contributing a chapter to this volume, or for more information, contact Renee Clary (email RClary@geosci.msstate.edu).

¹ HOGG member **Professor Renee M Clary** (Mississippi State University) has recently been elected as a Fellow of the Geological Society of America. “GSA Fellowship is an honour that is bestowed on the best of [the] profession. GSA members are elected to Fellowship in recognition of a sustained record of distinguished contributions to the geosciences and to the Geological Society of America.”[GSA website]

COMMEMORATIVE PLAQUE FOR CHARLES LAPWORTH



A plaque has been unveiled to commemorate the life and works of Charles Lapworth LL.D., F.R.S. (1842–1920) at the old Episcopal School in Galashiels. The listed building, now housing Border Council’s offices, was originally the school where Lapworth was headmaster in 1864–75. He moved to the Scottish Borders to teach, from his original home in Berkshire. Three of his four children were born in the school house.

The unveiling on 20th May 2019 was undertaken by children of the local St Peter’s Primary School in

Galashiels. The plaque was erected thanks to the efforts of retired local residents and geology enthusiasts, Malcolm Lindsay and David Adamson.

Charles Lapworth is a name long associated with the Southern Uplands of Scotland. He undertook his initial research while living locally, but it was not until he moved to Madras College, in St Andrews in 1875 to continue his teaching career that he began to publish his defining work on the distribution of graptolites. In 1879, he suggested the name Ordovician to describe the period between the Cambrian and Silurian, a name which was duly accepted across the world. Sir Edward Bailey, former Director of the Geological Survey and Professor of Geology at Glasgow University, later described Lapworth’s interpretation as “one of the miracles of science” and later said that “Lapworth grew up to be, perhaps, the greatest geologist who ever lived”. This plaque is therefore a fitting tribute to the important time spent by Lapworth both teaching and researching in the Borders.

Based on original report by Neil Mackenzie at

<https://www.edinburghgeolsoc.org/charles-lapworth-plaque-unveiled-borders/>

MARY ANNING ROCKS



Mary Anning Rocks is a campaign, inspired by 11 year old fossil enthusiast Evie Swire and launched in 2018, to have a statue of Mary Anning (1799–1847) in Anning’s home town of Lyme Regis, Dorset.



“We want to acknowledge and remember Mary in a visual way because we want to give her a tangible work of art that will not only give her back a physical presence in her Lyme Regis but will equally give the people of Lyme and the thousands of tourists that come to visit every year a focal point of remembrance and respect. We see the statue as an inspirational presence in the landscape where she worked, to inspire and show people, young and old, locals and visitors alike, that great things can be achieved from almost impossible circumstances.”

“From the start of this campaign we were adamant that no public money would be spent on this project, so fundraising is vital. We’re working closely with Lyme Regis Town Council on this because we want the process to be seen to be governed properly and with complete transparency.”

See <https://www.maryanningrocks.co.uk> for more information and how to donate.

OTHER FUTURE MEETINGS AND EVENTS

LEONARDO da VINCI: A LIFE IN DRAWING **The Queen's Gallery, Buckingham Palace, London** **24th May–13th October 2019**



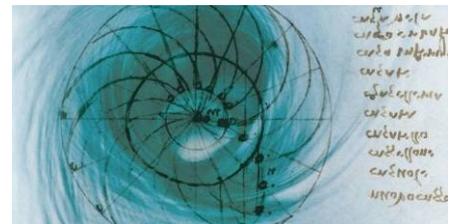
“Marking the 500th anniversary of the death of Leonardo da Vinci, this exhibition brings together more than 200 of the Renaissance master’s greatest drawings in the Royal Collection, forming the largest exhibition of Leonardo’s work in over 65 years.

With so much of his life’s work never coming to fruition, Leonardo’s greatest achievements survive only in his drawings and manuscripts. Providing an unparalleled insight into Leonardo’s investigations and the workings of his mind, the exhibition features drawings selected to reflect the full range of his interests, including painting, sculpture, architecture, anatomy, engineering, cartography, geology and botany.”

Due to popularity, advance booking recommended. For details see <https://tickets.rct.uk/queens-gallery-buckingham-palace/leonardo-da-vinci-life-drawing/2019>

From 22nd November to 15th March 2020, the exhibition (80 drawings) will be at The Queen’s Gallery, Palace of Holyroodhouse, Edinburgh.

LEONARDO da VINCI: A Mind in Motion **British Library, 96 Euston Road, London NW1 2DB** **7th June–8th September 2019**



“To mark the 500th anniversary of the death of Leonardo da Vinci, The British Library brings together highlights from three of his remarkable notebooks. Through pages of Leonardo’s handwritten notes, drawings and diagrams, explore the inner workings of his complex mind and his fascination with motion.

For the first time in the UK, this exhibition displays highlights from one of the British Library’s finest treasures, the Codex Arundel, alongside the Codex Forster from the V&A and a selection of sheets from the Codex Leicester. Widely considered to be one of Leonardo’s most important scientific notebooks, the Codex Leicester will be shown in this country for the first time since it was purchased by Bill Gates.

See Leonardo’s mirror handwriting up close and marvel at his detailed studies of natural phenomena which reveal how his observations of nature in motion directly informed his ability to portray human movement in the artistic masterpieces for which he is known today.”

For details see <https://www.bl.uk/events/leonardo-da-vinci-a-mind-in-motion>

**ICMG19—THE 13TH INTERNATIONAL CONFERENCE ON MILITARY
GEOSCIENCES
PADOVA (ITALY) 24th—28th JUNE 2019**



***Peace Follows War: Geosciences, Territorial Impacts and Post-conflict
Reconstruction***

The Conference will be held between Monday 24th June and Friday 28th June 2019, at the University of Padova in northern Italy. The Conference is being organised on behalf of the IAMG by the Department of Historical and Geographic Sciences and the Ancient World (DiSSGeA) and the Italian Society of Military Geography and Geology (S.I.G.G.Mi). There is a post-conference field trip from Saturday 29th June to 4th July in the Dolomites (Italian Alps).

The latest programme is available at <https://www.icmg19.it/program/>.



**44TH INHIGEO SYMPOSIUM
VARESE—COMO, ITALY
2nd–12th SEPTEMBER 2019
Center for the History of the Mountains, Material,
Culture and Earth Sciences
University of Insubria**

The 44th INHIGEO 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 Programme for accompanying persons. The conference will be followed by a Post-Meeting Field Trip.

CONFERENCE THEMES

- History of the Earth sciences in mountain environments
- History of communication in the geological sciences.
- General contributions on the history of geology

Further details were given in the last HOGG newsletter (No. 65, pp.23–26). Since then, the Second Circular has been issued and can be seen at <https://www.inhigeo.com/SecondCircular.pdf>. The Third Circular will be issued on 31st July 2019.

For more information visit the website <https://inhigeo2019.jimdofree.com> or write to inhigeo2019@uninsubria.it or to ezio.vaccari@uninsubria.it



**VISIT THE BIRTHPLACE OF GIDEON MANTELL
SUNDAY 15th SEPTEMBER 2019 11.00–16.00hrs**

HOGG new member Debby Matthews owns the house where Gideon Mantell was born. She runs a website where she posts issues of interest on Mantell

<https://gideonmantell.wordpress.com/about/>

The house will be open as part of Heritage Open Days.



**ASPECTS OF THE HISTORY OF GEOLOGY IN
SCOTLAND
AND
THE NORTH OF ENGLAND**



REGISTRATION FORM

Name

Address

.....

.....

E mail Phone no.

Member of HOGG or Edinburgh GS or Glasgow GS @£40.00 per person= £.....

Member of GA or Fellow of GSL @£45.00 per person= £.....

Non-member @ £50.00 per person (includes HOGG membership for current year)= £.....

TOTAL= £.....

I am interested in attending an informal group dinner on Thursday evening 11th July Yes / No

I am interested in attending the field visits on Friday 12th July Yes / No

Registration fee includes abstract booklet, refreshments and lunch at Surgeons' Hall. Lunch is not provided on the field visit but the lunch stop will be in an area with plenty of refueling options.

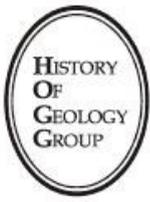
Please make cheques payable to HOGG and write 'Scottish Meeting' on the back.

Send the completed form and cheque to:

David Earle (HOGG Treasurer)
61 Straight Road
Old Windsor, Berkshire
SL4 2RT

Alternatively, if you wish to pay by bank transfer, please contact

David Earle (e mail daearle@btinternet.com).



THE GENESIS OF GEOLOGY IN YORK AND BEYOND
HOGG 25th ANNIVERSARY MEETING
in association with the Yorkshire Philosophical Society (YPS)
and supported by York Museums Trust (YMT)
23rd–24th OCTOBER 2019



REGISTRATION FORM

Name

Address

.....

.....

E mail Phone no.

Member of HOGG @ £25.00 per person (includes entry to Yorkshire Museum) = £.....

Member of YPS or HOGG member with a YMT card @ £20.00 per person = £.....

Non-member @ £30.00 per person (includes HOGG membership for current calendar year) = £.....

Non-member with a YMT card @ £25.00 per person
(includes HOGG membership for current calendar year) = £.....

TOTAL= £.....

Registration fee includes abstract booklet and refreshments (tea/coffee/biscuits and finger buffet lunch).

I am interested in attending a group dinner on Wednesday evening 23rd October Yes / No

I am interested in attending the field visits on Thursday 24th October (no extra charge) Yes / No

Transport will be on a car share basis. Will you require transport? Yes / No

Will you be able to provide transport? Yes / No

If yes, for how many?

Please make cheques payable to HOGG and write 'York Meeting' on the back.

Send the completed form and cheque to

David Earle (HOGG Treasurer) 61 Straight Road, Old Windsor, Berkshire SL4 2RT

Alternatively, if you wish to pay by bank transfer, please contact
David Earle (e mail daearle@btinternet.com).

Payment by standing order saves HOGG's resources so, if you are willing to make future payments by this means, please complete the form below *ensuring your mandate gives instructions for the appropriate amount.*

HOGG STANDING ORDER MANDATE

Name of bank or building society.....

Branch address.....

.....

.....

Sort code.....Account number.....

Account name.....

Please pay the amount of **£15 (fifteen pounds) / £5 (five pounds)** (*please delete as appropriate*) to the History of Geology Group of the Geological Society (Santander Business Account, Sort code ____ - ____ - ____ Account number _____) on 1st January (or closest date thereto) following the date of this instruction and annually thereafter until terminated by me in writing. [NB *Account details will be inserted by the HOGG Treasurer.*]

Signed.....Date.....

PLEASE SEND THE COMPLETED MANDATE TO

**David Earle (HOGG Treasurer)
61 Straight Road, Old Windsor, Berkshire SL4 2RT**