

**Earth Science Teachers' Association**  
**Annual Course and Conference –‘From field to classroom’**  
**27<sup>th</sup> – 29<sup>th</sup> September 2019**  
**Lapworth Museum, GEES, University of Birmingham**



UNIVERSITY OF  
BIRMINGHAM

SCHOOL OF GEOGRAPHY,  
EARTH AND ENVIRONMENTAL  
SCIENCES



*GENERAL INFORMATION - Delegates and Exhibitors*

**The Lapworth Museum of Geology and School of Geography, Earth and Environmental Sciences, University of Birmingham** are looking forward to welcoming you to the ESTA course and conference. The ideal opportunity for those who are new to teaching Earth Science and those with longer experience to each gain something from our collective sharing of good practice in an academic, but very sociable environment, dedicated to our needs.

Our theme for 2019 “From field to classroom” is a broad one, but reflects the foci of the workshops we are offering in support of the new A-level Geology specifications. “Field” refers to the research Birmingham academics have done outdoors, in the lab, on board ship, rock and fossil collections from the field, and how these along with student experiences in the field, are best shared and developed in the classroom. Eduqas and OCR will also be attending and leading their training sessions.

**Friday afternoon** Options to join the guided campus tour as well as a behind the scenes tour of the Lapworth Museum. CPD Sessions will also be run by Eduqas and OCR teams.

The Conference will be welcomed by **Professor William Bloss** (Head of School, University of Birmingham) followed by a keynote presentation by **Professor Alice Roberts** (evolutionary biologist, biological anthropologist, television presenter and author, Professor of the Public Engagement in Science at the University of Birmingham) on Ice Ages and Pleistocene megafauna. It will then be time to catch up with colleagues and make new contacts with an evening drinks reception and buffet.

**Saturday morning** There will be a choice of lectures and workshops, topics will include:

- 3D visualisation of fossils
- Using museum collections in supporting A level geology
- New concepts in seafloor spreading
- Exploring controls on volcanic processes
- Mineral Extraction Mock Inquiry
- Using geomodels for exploring sedimentary surface processes
- Micropalaeontology
- Structural geology and field Move
- Oxygen isotopes as a geological thermometer

A synopsis for each workshop is available on the ESTA conference website.

**Saturday afternoon** A keynote lecture on ‘Geographies of Popular Fiction’ by **Dr Will Tattersdill**. He will make us think about the maps we see at the start of books, especially fantasy and science fiction novels and what it means to create a geography, a geology, or even a physics for somewhere which doesn’t exist. **Chris King’s** ever popular “Bring and Share” Session will conclude the afternoon events and bring the usual sharing of various topics, knowledge and fun events! If you have something you would like to contribute to the ‘Bring and Share’ please do indicate this on the booking form.

**Saturday evening** The Conference Dinner will be held in the Lapworth Museum .

Exhibitors will also be supporting the event on Saturday – Information for Exhibitors is on page 2.

**Sunday** - Field visits will include:

- ❖ The Building Stones of Birmingham-from the Town Hall to Grand Central
- ❖ Environmental Interpretations and Structural Analysis of the Geology of the Lickey Hill, Birmingham
- ❖ The limescale geology and fossils of the Black Country
- ❖ Shropshire’s Geology Highlights

More details on each visit is given in the programme.

The programme is available on the our website and is subject to alteration. If you book for a session which is subsequently changed we will contact you before the conference.

**Venues** All events will be held within The Lapworth Museum of Geology and School of Geography, Earth and Environmental Sciences, University of Birmingham. (see web links below)

**Conference fees and booking information** As an educational event (any surplus is used to support the work of ESTA) we do not, under current regulations, have to charge VAT. A discount is offered to ESTA Members\*. Non Members pay the full fee which includes free membership to ESTA for 1 year (on receipt of your Booking Form your name and contact details will be passed to our Membership Department (if you agree on the booking form) to activate your free membership and you can amend/cancel any correspondence at any time).

**Early bird bookings end on the 9<sup>th</sup> September 2019.** After this date a £20 supplement will be charged.

<b>Packages</b>	
<b>Full package includes</b> <ul style="list-style-type: none"> <li>Friday afternoon Teacher Training for the Practical Endorsement</li> <li>Friday evening keynote presentation</li> <li>Friday evening buffet and drinks reception</li> <li>Saturday conference (including refreshments and lunch)</li> <li>Saturday evening drinks reception and conference dinner</li> <li>Sunday fieldwork visit (some visits will be provided with packed lunches)</li> </ul>	£210/£170*
<b>Friday and Saturday package includes</b> <ul style="list-style-type: none"> <li>Friday afternoon Teacher Training for the Practical Endorsement</li> <li>Friday evening keynote presentation</li> <li>Friday evening buffet and drinks reception</li> <li>Saturday conference (including refreshments and lunch)</li> </ul>	£170/£130*
<b>Saturday Conference only</b> <ul style="list-style-type: none"> <li>Saturday conference (including refreshments and lunch)</li> </ul>	£150/£110*
<b>Optional extras to book with a package or additional person/other fees-</b>	
Friday evening buffet (including keynote presentation and drinks reception)	£30
Saturday evening drinks reception and conference dinner	£22
Sunday field visits	£35
Bookings received after 9 <sup>th</sup> September 2019 – late booking charge	£25
Exhibitor – Saturday (including registration pack, refreshments, lunch – 1 person) £20 for each additional person and/or a supplement for those booking a full conference package	£20
	£100 (+£30 pp)

**Exhibitors** The exhibition will be open on Saturday 28<sup>th</sup> September. The attendance fee per exhibitor is £100, which includes lunch and refreshments for 1 person, additional people can attend at £30 per person. If you are already a paying delegate the additional charge is £30. There is limited stand space however there may be the opportunity to set up on Friday late afternoon please contact us for details. Optional extras are also available to book ie Friday evening buffet and Saturday evening Conference Dinner etc, please refer to Booking Form.

**Booking confirmation and payment** Confirmation of booking together with your invoice will normally be sent within 5 working days of receipt of the booking form. Payment can be made by cheque accompanying the booking form, or by cheque or BACS on receipt of the invoice. If paying by BACS, please ensure that your invoice number is given as a reference. If your institution issues purchase orders, please ensure that a copy is sent with your booking form and that the number is provided on your booking form. We are unable to accept payment by Credit Card.

**ALL PAYMENTS MUST BE RECEIVED BEFORE THE CONFERENCE.**

ESTA has two bank accounts please ensure that the correct account is credited.

Name of account: Earth Science Teachers' Association Conference Account number: 30592706, Sort Code: 20-50-36, Bank: Barclays, Liscard Branch.
---

**Cancellations** A 50% refund will be made for all bookings cancelled on or before 9<sup>th</sup> September 2019, thereafter the full amount is due.

**Joining information** Will be sent by email approximately 2 weeks before the event and published on the website one week before the event.

**Accommodation** An allocation of rooms has been reserved at a preferential rate at The Edgbaston Park Hotel, 53 Edgbaston Park Road, Edgbaston, Birmingham, B15 2RS. It is situated on the University Campus has free parking and a 15 mins walk to The Lapworth Museum. Rates are £90 B&B per night – Single Occupancy, £99 B&B per night – Double Occupancy. To Book Quote 'ESTA2019, Email - [reservations@edgbastonparkhotel.com](mailto:reservations@edgbastonparkhotel.com), Tel - Lucy Woods 0121 414 9780 or Matthew Arnott 0121 414 9779 (General enquiries Tel 0121 414 8888) Preferential rate currently available up to 6 weeks before the conference ie 16/8/19. A nearby alternative hotel which is also on campus is Lucas House Hotel (opposite the Edgbaston Park Hotel). This is classed as budget accommodation and is slightly cheaper. There is no discount or allocation of rooms for our conference at Lucas House. You will need to contact them directly for their current price.

**Parking and Transport** Parking will be limited on the Friday around The Lapworth Museum. It is suggested that the multi storey car park is used and charges apply up to 6pm on Friday. It is free after this time and on Saturday and Sunday. For other transport see website links below 'Birmingham University (Travel)'.

**Meals:**

**Friday 29<sup>th</sup> September** – Tea/coffee will be available during Registration which opens at 1pm. There will be an evening drinks reception and buffet after the Welcome and Keynote Presentation. There is a facility to purchase food on campus and within venue we are located in.

**Saturday 30<sup>th</sup> September** – Refreshments will be served at Registration, mid morning and afternoon. A buffet lunch will be provided. In the evening the Drinks Reception and Conference Dinner will take place at The Lapworth Museum. There will be a short break between the sessions and the evening where you can meet colleagues and view the Museum.

**Sunday 1<sup>st</sup> October** – The field visits will be starting at various locations and some have transport provided. Further details will be provided in the Joining Instructions.

**ESTA Bring and Share' session** If you are a regular conference attendee, you won't need to be told about the extravaganza of the 'Grand ESTA Bring and Share session' which we will be holding again this year. It is a wonderful mix of a range of activities to be shared with everyone in quick-fire succession and is led by you volunteering to bring and share brilliant, dynamic, innovative and strange contributions for great teaching ideas. It would be useful if you could let Chris King know what you are planning to present beforehand (and even better if you were able to write a brief note on your B&S item for *Teaching Earth Sciences* - so that all ESTA members can share in the experience). Please indicate on the Booking Form if you would like to 'bring and share' and I will arrange for Chris to send more information to you.

**EGM and AGM** The ESTA AGM will take place at 2.15pm on Saturday 28<sup>th</sup> September. All members are encouraged to attend. Papers will be available from the ESTA website a month before the conference for you to view/print. Council will have limited paper copies available at the meeting to reduce our costs of printing.

**Bring and Swap Table** This is like 'Bring & Share', delegates can bring 'spare' rocks, minerals, fossils, maps etc to share/swap with other delegates (rather than sharing teaching ideas). This will be ongoing in the exhibition area throughout Saturday 28<sup>th</sup> September, in parallel with other activities. Ideally if they don't get taken you will need to take them back home!

**Field Visits** These take place on the Sunday and full details are available on the programme and on the website. Some will have transport and packed lunches included and others you will need to make your own arrangements.

**Membership of ESTA** This year non members attending the conference have the benefit of becoming a member of ESTA for a year as part of the booking process. Please refer to the ESTA website for the membership benefits you will receive.

**Website links:**

ESTA	<a href="https://earthscience.org.uk/">https://earthscience.org.uk/</a>
ESTA Conference (Booking information)	<a href="https://earthscience.org.uk/training/conference/">https://earthscience.org.uk/training/conference/</a>
ESTA Membership	<a href="https://earthscience.org.uk/join-us/">https://earthscience.org.uk/join-us/</a>
Birmingham University (Travel)	<a href="#">Find directions to the University's campus at Edgbaston</a> <a href="#">View the Edgbaston Campus map (PDF 824KB)</a>
The Lapworth Museum (Registration, meals and Conference Dinner venue)	<a href="https://www.birmingham.ac.uk/facilities/lapworth-museum/index.aspx">https://www.birmingham.ac.uk/facilities/lapworth-museum/index.aspx</a> <a href="https://www.birmingham.ac.uk/facilities/lapworth-museum/visit/index.aspx">https://www.birmingham.ac.uk/facilities/lapworth-museum/visit/index.aspx</a>
Geology and School of Geography, Earth and Environmental Sciences (Keynotes/lectures and workshops)	<a href="https://www.birmingham.ac.uk/schools/gees/index.aspx">https://www.birmingham.ac.uk/schools/gees/index.aspx</a>

<p>Accommodation –  <b>The Edgbaston Park Hotel</b> - recommended – rooms reserved/discounted rate  <b>Lucas House</b> – alternative on campus accommodation (budget rooms)</p> <p><b>Other options</b></p>	<p><a href="https://www.edgbastonparkhotel.com/">https://www.edgbastonparkhotel.com/</a></p> <p><a href="https://conferences.bham.ac.uk/accommodation/hotels-on-campus/">https://conferences.bham.ac.uk/accommodation/hotels-on-campus/</a></p> <p><a href="https://visitbirmingham.com/where-to-stay">https://visitbirmingham.com/where-to-stay</a>  <a href="http://www.booking.com">www.booking.com</a> , <a href="http://www.laterooms.com">www.laterooms.com</a>, <a href="http://www.premierinn.com">www.premierinn.com</a>  <a href="http://www.travelodge.co.uk">www.travelodge.co.uk</a></p>
<p><b>Field Visits</b></p> <p>1. The Building Stones of Birmingham - from the Town Hall to Grand Central</p> <p>2. Environmental Interpretation and Structural Analysis of the Geology of the Lickey Hills, Birmingham</p> <p>3. The limestone geology and fossils of the Black</p> <p>4. Shropshire's Geology Highlights</p>	<p><a href="http://bcgs.info/pub/local-geology/building-stone-trails/">http://bcgs.info/pub/local-geology/building-stone-trails/</a></p> <p><a href="http://ehtchampions.org.uk/ch/worcestershire-sites/lickey-hills-quarries/">http://ehtchampions.org.uk/ch/worcestershire-sites/lickey-hills-quarries/</a></p> <p><a href="http://dudleycanaltrust.org.uk/">http://dudleycanaltrust.org.uk/</a>  <a href="https://www.dudley.gov.uk/residents/environment/countryside-in-dudley/nature-reserves/wrens-nest-national-nature-reserve/geology-of-wrens-nest-national-nature-reserve/">https://www.dudley.gov.uk/residents/environment/countryside-in-dudley/nature-reserves/wrens-nest-national-nature-reserve/geology-of-wrens-nest-national-nature-reserve/</a></p> <p>(no link available currently)</p>

To book a place at the conference please complete the booking form.  
If you have any questions or would like to request hard copies of the documents, please contact-  
Liz Lockwood, ESTA Conference Manager, 28 Pitsford Drive, Loughborough, Leicestershire, LE11 4NZ  
Email: [conference@esta-uk.net](mailto:conference@esta-uk.net) Telephone: 07597 814170