

**Earth Science Teachers' Association**  
**53rd ANNUAL GENERAL MEETING**  
**3.45pm, Saturday 3 October 2020**

**ESTA Chair's Report 2019/20**

The past year has very much been centred around Covid. While we did not know that word in September, we come to the end of the year on the other side of a lockdown and a very new way of communicating. Did anyone use Zoom this time last year? Regardless of this change, we have been able to keep promoting the subject and have been working closely with the Geological Society and others to ensure that Geology and Earth Sciences are strongly placed in science education.

*Working with the Geological Society of London*

I have continued to attend the Education Committees throughout the 2019-20 academic year. Areas where we can work together have become clearer over the past year and include:

- Geol Soc attended the ASE conference in January for the first time- it was noted that it is incredibly expensive to have a stand and we have suggested hosting a joint one in 2021. This will also help with the issues of manning the stand. It will also allow us as ESTA to focus on the education based sessions rather than having a permanent person on a stand (which has been difficult to achieve in recent years. This would be the start of a joint program to help reduce impact on people.
- It was also suggested that we do the same for the Geography Association conference 2020- Unfortunately the event was cancelled but we hope to organise a joint effort in 2021. The total cost of the stand is £585, and Geol Soc are planning on having two staff present. The cost of a further member registration fee (£175) could also be added to this so we have a representative and then we share the price overall. We are struggling to get current teachers to help due to time pressures. This approach will help us focus on our area of expertise, education, while promoting our institution at a stand. In the future it might be worth running more sessions at the Geographical Association conference- I am more than happy to take a lead on this and use them to advertise the ESTA/Geol Soc stand etc.

The Geological Society have held two meetings about the future of geosciences in June. They have sparked a good deal of conversations between groups and hopefully it will lead to a more positive working relationship between different groups. There is a further meeting virtually on 29th September. Details below:

<https://www.eventbrite.co.uk/e/futuregeo-20-tickets-115712959577>

We are continuing to support the schools challenge and hope that more schools and colleges will be able to contribute in 2021 with an online version of the series.

*BGS/Geol Soc careers fair*

I attended the Geological Society of London careers fair at the BGS Keyworth and gave a talk on Wednesday 6 November about becoming a teacher. This was very well received and I have since already had two third-year students come in to observe me. One is going to apply to be a teacher.

*Association of Science Education, January 2020*

I attended the ASE conference in January. Unfortunately we had a stand issue (in that those who said they could do it, were then unable to). I set it up for the Saturday and spoke to over 100 people. 15% were UK based (mainly primary, only two were secondary and had come for freebies!). There was a huge Scandinavian contingent and about 20% of people were those

trying to sell their skills to us. Geological Society focused on physical resources which were very well received. Do we need to consider:

- Having physical resources printed?
- Focus more on the sessions and sell ESTA that way?
- We do need to update materials (we now have new flags that will be introduced at conference and paper materials will also be updated in the coming year)

#### *Our first virtual conference*

A huge thank you to all the hard work of Maggie Williams and Sian Vollum-Davies for putting together our first ever virtual conference. This has been a difficult year so to introduce a completely new approach has been a considerable amount of work. We hope you will enjoy the event and find it useful. A thank you must also go to our Chair-elect James Speed for hosting a quiz for us all on the Friday.

#### *Promotional videos and social media*

We have been continued to use social media effectively to promote our message, and are in the process of producing more material. As I am stepping down as chair this year, I am hoping it will give me more time to focus on this area.

#### *Website and resources*

Thanks to the Covid outbreak it has given us time to think about how to present our resources. Given the extent of them (over 50 years of material!), this has been a bigger project than first thought. After careful consideration and, some serious trial and error, we have decided to create Google Classrooms for our resources. Everyone will be able to access them who is a member and we will send passwords so that people can log in and use them.

If anyone has resources they would like to share, we will love to add them to our website. Please get in touch.

It must be noted that we have thousands of resources. Some date back to the 1960's and, while may still be of use, are part of a huge zeitgeist of material. If there is anything in particular you want to see on our new platforms please let us know.

#### *Tomlinson Brown Trust website*

I have met with Dr Roger Wall about the promotion of their activities, and we will ensure that our respective websites promote the activities of the other. I have also suggested an article is written for Teaching Earth Science and that some of the trustees attend our conference. The trust is aimed at supporting teachers and students in the delivery of geology so I hope you will take the opportunity to apply for funding. The application form and materials for applying for funds are now on our website.

I placed these statements at the end of my AGM report last year and I decided to leave them here again. Mainly because I feel the answer to all of them is yes. But, I think it may be changing.

*'Are we our own competitor?'*

*'Are we providing multiple services across the year at different places? Could these be rationalised?'*

*'Are we diluting our impact?'*

**Dan Boatright, ESTA Chair  
August 2020**

## **ESTA Treasurer's Report 2019/20**

### *Income*

Income from subscriptions total £9660.50 and show an increase from last year (£8396.57). This includes £1075.00 from higher rate Corporate subscriptions introduced in 2019. Thanks are due to Elouise Gill, Membership Secretary who has dealt with subscriptions.

A welcome donation of £3000 was made by the Warwickshire Geological Conservation Group (WGCG) to fund ESTA workshops.

Income from the Publishing Licensing Society (PLS) was slightly lower this year generating £263.53 (£325.94 in 2018/19).

### *Expenditure*

Publications (Magazine and Newsletter) costs are higher (£7631.41) than last year (£5748.75).

Council expenses are higher this year (£4006.91) compared to £3859.15 in 2018/19. Council expenses include the costs of Council meetings, attendance at external events, Secondary meetings and workshops, and the upkeep of the website. The expenses also include some of the workshops funded by WGCG.

Publicity costs (£1227.80) are mainly incurred by attendance at conferences (Association for Science Education ASE, and Geographical Association) and careers fairs. Publicity costs are higher this year (£1044.50 in 2018/19). ESTA presence at conferences serves to publicise the association to a wider audience.

ESTA Conference expenditure has increased this year from the main account despite conference expenses now paid by the Conference account. The expenditure for 2019/20 (£874.20) reflects some attendees paying conference fees into the main account. These fees were subsequently transferred into the Conference account.

ESTA first adopted a Reserves Policy during 2006-7 and a contingency sum is held to bridge cash flow problems and ensure, firstly, continuity in the production of Teaching Earth Sciences in the event of a large variation in income and, secondly, payments towards specific future projects under the PT Carr Award scheme. The Reserves Policy was reviewed by Council during this financial year. I wish to record that the level of reserves held on the last day of the financial year was £10,000.

I wish to place on record my thanks to Julie Wilson and Rachel Dunn (University of Durham Assistant Professors) for inspecting the 2018/19 accounts. I also wish to thank past ESTA Treasurer Maggie Williams for her continued help and support with treasuring activities.

At the time of writing this report the accounts for 2019/20 have not been inspected.

**Carole Rushall, ESTA Treasurer  
June 2020**

<b>EARTH SCIENCE TEACHERS' ASSOCIATION – Accounts and Treasurer's Report for 2019-20</b>			
	<b>Current Account</b>		
<b>Income</b>		<b>2018-19</b>	<b>2019-20</b>
	Adverts	£120.00	£120.00
	ESTA Conference	£170.00	£00.00
	Gift Aid	£0.00	£0.00
	Promotions	£0.00	£0.00
	Publishers Licensing Society	£325.94	£263.53
	Sponsorship/ donations	£655.05	£3020.44
	Subscriptions (including corporate)	£8396.57	£9660.50
	Transfer from deposit	£0.00	£0.00
	<b>Total Income</b>	<b>£9667.56</b>	<b>£13064.47</b>
<b>Expenditure</b>		<b>2018-19</b>	<b>2019-20</b>
	Bank charges	£68.88	£38.48
	Conferences & Publicity	£1044.50	£1227.80
	Council expenses	£3859.15	£4006.91
	Data Registration	£35.00	£35.00
	ESTA Conference >2019	£399.80	£874.20
	Promotions	£0.00	£0.00
	PESGB Projects (completed in 2017-18)	£0.00	£0.00
	PT Carr Award	£0.00	£0.00
	Publications	£5748.75	£7631.41
	Public Liability Insurance	£202.72	£212.86
	Subscriptions to other organisations	£465.00	£65.00
	Refunds	£120.00	£120.00
	<b>Transfer to Deposit account (deposit interest paid into main account until 2016/17)</b>	<b>£0.00</b>	<b>£0.00</b>
	<b>Total Expenditure</b>	<b>£11883.80</b>	<b>£14211.66</b>
	<b>Deposit Account</b>	<b>2018-19</b>	<b>2019-20</b>
	Start	£26485.28	<b>£26634.42</b>
	Interest	£149.14	£200.14
	<b>Transfer in/out</b>	<b>£0.00</b>	<b>£0.00</b>
	<b>End Balance</b>	<b>£26634.42</b>	<b>£26834.56</b>
<b>Total Accounts</b>		<b>2018-19</b>	<b>2019-20</b>
	<b>Start</b>	<b>£37969.61</b>	<b>£35902.51</b>
	<b>End</b>	<b>£35902.51</b>	<b>£34955.46</b>
Total Accounts include a reserve of £10,000.00			

## Additional Information

<b>Designated Funds</b>			
<b>PT Carr Legacy - Interest on the invested sum of £3003.05</b>			
21 05 2009 £3003.05 invested for 5 years, Halifax Stepped Income Reserve Fund			
		<b>Interest</b>	<b>Balance</b>
2009/2010	2010	£96.10	£1,284.08
2010/2011	2011	£99.06	£1,383.14
2011/2012	2012	£102.73	£1,485.87
2012/2013	£500 awarded to J Marion	£112.92	£985.87
Account closed 17/06/13, balance and interest in current account. closing balance £3123.17			
2013/2014		£112.92	£1098.79
2014/2015		£120.12	£1218.91
2015/2016		£31.22	£1250.13
2016/2017		£29.25	£1279.38
2017/2018		£14.91	£1294.29
2018/2019		£16.91	£1311.2
2019/2020		£22.40	£1333.6
<b>Total PT Carr Legacy including amount available for awards</b>		<b>£3003.05 + £1333.6 = £4336.65</b>	

<b>ESTA Conference Account Summary</b>			
<b>Income</b>		<b>2018-19</b>	<b>2019-20</b>
	Sponsorship	<b>£300.00</b>	<b>£2665.00</b>
	Fees received	<b>£9794.00</b>	<b>£11480.00</b>
	ESTA (float)	<b>£6500.00</b>	<b>£1500.00</b>
	Adverts/flyers	<b>£270.00</b>	<b>£210.00</b>
	<b>Total income</b>	<b>£16864.00</b>	<b>£15855.00</b>
<b>Expenditure</b>		<b>2018-19</b>	<b>2019-20</b>
	Accommodation & Catering	£5566.77	£7616.41
	Insurance	£0.00	£0.00
	Staff fees	£6433.29	£6403.95
	Printing , postage & sundries	£536.23	£50.74
	Transport	£0.00	£599.50
	Contributors accommodation & travel	£104.00	£0.00
	Fieldwork expenses	£0.00	£0.00
	<b>Total expenditure</b>	<b>£12640.29</b>	<b>£14670.60</b>
<b>Total Conference Account 2019/20</b>			
Bank account starting balance 2019/20 (Including £1500 start-up fund)			£3854.11
<b>2019 Conference loss (income minus float minus expenditure)</b>			<b>-£319.50</b>
Future conference costs paid in 2019/20			<b>-£123.90</b>
<b>Account balance March 2020</b>			<b>£3534.61</b>

## **ESTA Secretary's Report 2019/20**

### *Meetings of ESTA Council*

Three Council meetings were held during the year: at Keele University on 23 November 2019 and 7 March 2020, and (virtually) on 20 June 2020. ESTA is grateful to Keele University who generously continue to allow Council to use their facilities in the Sustainability Hub for meetings, pandemic regulations allowing. Council is planning to meet on 21 November 2020. Any member interested in becoming a member of Council is invited to attend a meeting to observe business (travel expenses will be met).

Subjects discussed by Council since the last AGM have included:

- The impact of COVID on exams
- ESTA's strategy
- The future of the Keele Geoscience Summer School for training geology teachers and an evaluation of previous Summer Schools
- ESTA training workshops
- Training and appointment of Regional Earth Educators
- A review of materials to promote ESTA at conferences
- Web-based teaching resources

### *ESTA President*

Members will remember that David Shilston stepped down as ESTA President at the 2018 AGM. In June 2019 Professor Ian Barker accepted Council's invitation to become the new President. Initially it was agreed that the new President would complete a truncated term of office, finishing at the 2020 AGM in line with the established schedule. At their meeting on 23 November 2019, Council proposed that Professor Barker's term should be extended to the full two years allowed under ESTA Rules, i.e. until the Council meeting in June 2021. Council are grateful to Professor Barker for agreeing to continue in this role.

### *Contact details*

ESTA relies on email for communicating with our members: 15 emails were circulated to the membership distribution list in the 12 months to June 2019 with news of events, resources and vacancies for teachers of Geology, Geography and Environmental Science. However, we still lack up-to-date email addresses for a significant proportion of the membership. This often happens when members change job or internet provider. If you are not receiving email updates or ESTA News, please get in touch to confirm your contact details.

**David Bailey, ESTA Secretary**  
**July 2020**  
secretary@earthscience.org.uk

## ESTA Membership Secretary's Report 2019/20

### *Membership*

Current membership – 235

	July 2018	July 2019	July 2020
Complimentary	22	23	23
Student	6	3	2
Retired	58	51	47
Ordinary / Institutional	205	184	150
Agency	20	20	13
	311	280	235

**Elouise Gill, Membership Secretary  
August 2020**

## **ESTA Higher Education Co-ordinator's Report 2019/20**

*Note: The items in this report are listed in chronological order, for ease of collation in ESTA's report to the Charities Commission, whose reporting period is April - March.*

### **University Geoscience UK (Sept 2019 – Mar 2020)**

*The Future of Geoscience: what happens next? (14 Nov 2019)*

Prof. Angela Coe attended the UGUK Annual Meeting in my stead. The meeting comprised a number of breakout workshops for a variety of stakeholders in UK geoscience, looking at the journey into university from schools and onwards into careers. Three working groups were formed:

- Education: School – HE recruitment – outreach (Led by Pete Burgess, Liverpool)
- Industry: oil+gas, mining, ground engineering. (Led by Nick Koor, Portsmouth)
- Policy: (Led by Mark Anderson, Plymouth)

### **Outreach visits to schools (Sept 2019 – Mar 2020)**

In my role as a STEM Ambassador, I organised and led or co-led 6 outreach visits to local Primary schools, ranging from a Year 3 'field trip' to a National Trust property focused on building materials, weathering etc. to a morning carousel of activities focused on fossils and dinosaurs.

### **GeoWeek 2020 (Jan 2019 – Mar 2020)**

Planning for this event was thrown into some turmoil this year, initially by changes at BGS that jeopardised their support for the principal organiser, John Stevenson. A number of teleconference meetings were held to share the workload, with David Ward, Angus Miller, Kirstin Lemon, Chris King and myself all contributing, for instance by contacting 2019 organisers to encourage them to participate in 2020 and reaching out to universities to involve them. David and I posted Twitter messages to raise the social media profile of the event, while John managed the Event Map on the website:

<https://www.bgs.ac.uk/geoweek/eventMap.html>.

### **Geological Society of London (Mar 2020)**

The Society produced a free poster for schools depicting the wide range of potential careers in Earth Science as part of the campaign to reinvent/reinvigorate geoscience in the UK. This resource can be found on the Posters page of the GSL website:

<https://www.geolsoc.org.uk/Posters>.

### **Higher Education Network Annual Meeting (21 Apr 2020; Postponed)**

*(‘Widening participation in HE Geoscience’, Swansea University)*

Due to be held in April 2020 at Swansea University, this meeting would have featured themes of diversity and recruitment in Earth Science, with Professor Chris Jackson (UCL) as a keynote speaker. Unfortunately, the programme had to be postponed due to the impact of COVID-19 lockdown.

The theme seems now to be even more timely/topical than when first proposed, given the 'Black Lives Matter' movement. Provided some semblance of normality has returned by next January, the meeting will be held at Swansea University, and we hope to persuade Chris Jackson to deliver a keynote as was planned for April. We will monitor the situation and try to plan an event that could be shifted online if need be.

A reminder of the Twitter account for HEN: @GeoSocHEN14. Please follow and RT us!

Most of the presentations from this and past events are hosted here:

<https://www.geolsoc.org.uk/hen-resources>.

### **GeoWeek 2020 (9–17 May 2020)**

COVID-19 caused the cancellation of all planned events, except for some virtual/online events offered by various organisers, including a few 'Ask a Geologist' events advertised on social media. Ideas for these were developed through a series of teleconference calls from March to May.

Some online events were very successful; others not so. Angus Miller's events in Scotland were very well attended. The window for publicity was necessarily very tight and arrangements had to be made very rapidly, which probably accounts for the variable success. Lessons learned for the future!

### **Outreach visits to schools (Apr – Sept 2020)**

No outreach visits were possible in the remaining school year (to end July). I am considering plans for the new school year but the hands-on, small-group nature of most of the activities means that many will be undeliverable under the new COVID restrictions, so reduced programmes will have to be offered.

### **University Geoscience UK (Mar – Aug 2020)**

I have attended a couple of discussions of UGUK's initiatives to raise the profile of Earth Science/Geology via 3 working groups, focused on:

- Education: School – HE recruitment – outreach (Led by Pete Burgess, Liverpool)
- Industry: oil+gas, mining, ground engineering. (Led by Nick Koor, Portsmouth)
- Policy: (Led by Mark Anderson, Plymouth)

Some progress was made on the first initiative, with a website in development, before COVID-19 lockdown hit. Progress on the other initiatives stalled during the pandemic crisis, something I can well understand given my workload since early March. However, there are encouraging signs of mobilisation in the community, including the 'Geoscience for the Future' website/Twitter group, a surge of interest in virtual geo resources, projects to improve inclusivity in fieldwork and geoscience generally...

The UGUK-based website <https://earth-science.org.uk/> went live in August, featuring videos and other content raising the profile of Earth science in the context of modern society, as well as pages with information on Earth science degrees at UK universities, designed to attract students and inform them of the variety and breadth of potential careers in the discipline.

### **Geological Society (Jun – Aug 2020)**

I managed to attend part of the first of the two GSL 'June Summits' on the Future of Geoscience, despite being too late to formally register. I participated in the YouTube livecast, contributing some comments to a lively discussion via chat that paralleled questions/answers from the various panel members. I was unable to attend the 'Student enrolment' summit on 24 June due to (rescheduled) external examining commitments.

**Tom Argles, HE Co-ordinator  
August 2020**

## **ESTA Secondary Co-ordinator's Report 2019/20**

### **Geology teacher training**

The 'Teaching and Learning in Geoscience Education' Summer School originated by the Earth Science Education Unit (ESEU), run by Keele University, and currently overseen by ESTA, would have run for its seventh time this year, in late July/early August, if Keele University had not required that the course be postponed due to coronavirus. All places were filled, with a waiting list, however, only two bursaries had been secured by the time of lockdown, since, after that, companies had other priorities. The bursaries secured were from the 'Holloway Bequest of the Warwickshire Geological Conservation Group' (WGCC) [www.wgcc.co.uk](http://www.wgcc.co.uk). Keele University has offered to host the Summer School annually for the foreseeable future, through the School of Geography, Geology and The Environment, providing that seven bursaries per year can be found, so now further bursaries for the next three years must be sought.

### **Earth science training for geography, science and primary teachers**

The ESEU/ESTA training workshops continued through 2018/19 until the coronavirus lockdown. 24 face-to-face workshops ran in 2019/20 and three virtual workshops. The training workshops are supported by funding from the 'Holloway Bequest of the Warwickshire Geological Conservation Group' (WGCC) [www.wgcc.co.uk](http://www.wgcc.co.uk) by £3000 this year and for the next two years. This is enabling existing facilitators to continue running workshops. Meanwhile the planning to train ESTA members who would like to be so trained, to run the workshops in their local areas so they can act as 'Regional Earth Educators' (REEs) had been planned to run just after lockdown was imposed – and had to be postponed. Nine new REEs would have been trained. When the training will actually take place is unknown at the time of writing.

### **The Earth Science Education Forum**

Following the new strategy to 'piggy back' ESEF meetings on other conferences, the first of these meetings took place on Friday 27 September at the 2019 ESTA Conference in the Lapworth Museum of Geology, Birmingham University. The next meeting would have taken place at the forthcoming ESTA Conference at Derby University – if this conference had not now become virtual due to coronavirus restrictions.

### **UK Conferences**

- At the ASE Annual Conference at Reading University (8-11 January 2020) ESTA ran a range of workshops and these were the best attended for many years, with 167 participants in total. ESTA also ran a stand. Due to Covid, the next Annual ASE Conference will be virtual – with two workshops being run online in January 2021. This may be followed up by an ASE Summer Conference in 2021.
- The Geographical Association conference with ESTA involvement planned for Guildford in April 2020 was affected by Coronavirus and ESTA was not involved.

### **European geoscience education support strategy**

In support of this strategy:

- The six field officers trained last year, four from Europe sponsored by European Geoscience Union (EGU) (France, Italy, Spain and Portugal) and two from 'beyond' sponsored by the International Union of Geological Sciences (IUGS) (Morocco and India); had a very successful first year in training a total of 379 people. As a result of this success, four more EGU Field Officers (Albania, Germany, Hungary and Turkey) and three more IUGS Field Officers (Chile, Malaysia and Togo) had been invited for training, but this training was postponed due to Coronavirus.
- The new European Chapter of European geoscience teacher associations formed last year has had a very quiet year, but has been given new recent impetus and will hopefully be more productive next year.

### **International conferences**

- The Geoscience Information for Teachers (GIFT) conference planned for the International Geological Congress in early March 2020 in India was cancelled due to coronavirus.

- The Vienna GIFT planned for April 2020 was rolled over until next year, due to coronavirus.

### **Earthlearningidea**

Earthlearningidea's success is continuing – 340 ideas have been published in English with more than 1100 translations into 11 different languages; there have been more than 4.5 million downloads so far, currently averaging more than 40,000 per month. During lockdown, many Earthlearningideas (ELI) were videoed as part of ELI workshops modelled on ESTA/ESEU workshops. In the first full month, more than 900 videos and 100 workshops PowerPoints were downloaded.

### **GeoWeek 2020**

Most of the plans for GeoWeek 2020 had to be cancelled due to the coronavirus – but at least 50 activities had been posted on the GeoWeek website before lockdown. However, due to the initiative of Tom Argles and Angus Miller, at least six virtual 'Ask the expert' geoscience events ran successfully.

**Chris King  
July 2020.**

## **ESTA Editors' Reports 2019/20**

### **Teaching Earth Sciences**

Sincere apologies for the lack of *Teaching Earth Sciences* in 2020. This is in part due to the lack of articles to publish and also the COVID 19 situation. Therefore the next issue of *Teaching Earth Sciences* will be a double issue. It is currently with the printers and I expect the draft issue by the end of the month. So hopefully it will be with the membership by the end of September.

My fourth term of office is complete this year. This means that I have done 12 years as Editor. I fully expect that (due to lack of interest) I will be re-elected for a further three years. I will not leave the Association in the lurch, but this is absolutely the last time that I will accept a nomination for re-election. I am happy to train up a new Editor and act as Assistant Editor but I have had enough. New blood is required or you will lose the magazine.

If you feel that you could take on the role, I am happy to discuss what is involved. Please email me at [tes.esta@gmail.com](mailto:tes.esta@gmail.com)

**Hazel Clark, Editor, *Teaching Earth Sciences*  
August 2020**

### **ESTA News**

The copy deadlines of 15 May and 15 November were met so that *ESTA News* was produced twice this year. EN 11.1 was circulated to members in June 2019. Maggie Williams (Newsletter Editor) provided the images used to illustrate this edition of the newsletter. In December 2019, EN 11.2 was distributed to members and Hazel Clark (Magazine Editor) kindly provided most of the images that illustrated this edition of the newsletter.

Once again, thanks are due to David Bailey for his time in arranging the email distribution of newsletters to ESTA members. Unfortunately, we still do not have email addresses for all ESTA members, so some members did not receive electronic copies of *ESTA News*

Newsletters have included news items, details of websites providing useful teaching resources, diary dates, details of recently published geology/Earth science books and field guides and information about CPD, other training sessions, workshops, geological events, and conferences.

If members have ideas for new sections to be included in *ESTA News* or sets of photographs that could be used as illustrations in the newsletter, then please let me know. If you are thinking of providing illustrations for *ESTA News*, sixteen photographs on a geological topic or covering the geology of an area you have visited would be ideal. Please send your suggestions (or contributions) to me via: [hiatus@liverpool.ac.uk](mailto:hiatus@liverpool.ac.uk)

**Maggie Williams (Editor *ESTA News*)  
July 2020**

## **ESTA Project Manager's report 2019/2020**

### *ESTA-PESGB Competition to celebrate Earth Science Week (ESW) 2019*

PESGB supported this PESGB-ESTA national competition for schools and colleges to celebrate Earth Science Week 2019 and kindly provided the prizes. The theme of this competition was "Earth Science is for Everyone" and the competition was linked to the idea that no matter who you are or where you live, your life depends on people understanding Earth systems (our planet's land, water, air and living things).

For this competition the challenge for students was to select a natural hazard and produce an eye-catching and informative A3 poster that explains what causes the hazard, describes how the hazard might have a negative effect on us or our environment and shows their knowledge and understanding of how actions can be taken to reduce the long-term risks caused by the hazard they selected.

The closing date for this competition was 31st December 2019 and information about the competition was advertised on social media and via an update to members circulated by David Bailey.

The winners in each category were:

Category A: Age 9 -11 (Key Stage Two) - Abby Billups

Category B: Age 12-14 (Key Stage Three) - Zara Aslam

Category C: Age 14-16 (GCSE) - Poppy Down

Category D: Age 16-18 (A Level) - Rosie Down

The winners were all pupils at Sheffield High School, so congratulations are also due to James Speed for encouraging his pupils to submit entries for the competition.

**Maggie Williams, Projects Manager  
July 2020**