



2nd March 2024

LGS Newsletter 165.12

Liverpool Geological Society Events

These events will be held in **Lecture Theatre C** in the Central Teaching Hub, University of Liverpool. **Entrance will be via the main door. Please be aware that for security reasons, the building manager may lock the main door to stop access from outside at some time after 7.30pm. If you arrive late and are unable to gain access, you may need to contact someone inside the lecture to let you in.**

Tuesday 12th March 2024

Extraordinary Meeting

This meeting will begin at 7.30 p.m. and will precede the lecture by Dr Emma Biles. .

Agenda for the Extraordinary Meeting

1. Nominations for Council 2024 – 2025.

The following are proposed by Council to be elected for the 2024/2025 Session:

Officers of Council:

President P. Burgess, Vice-President, HE Clark, Hon Secretary ME Williams, Hon Assistant Secretary HE Clark, Hon Programme Secretary NC Hunt, Hon Treasurer GT Billington, Hon Assistant Treasurer NC Hunt, Hon Editors (NW Geologist) ME Williams & TJP Williams, Hon Librarian WJ Iley, Hon Archivist A Morgan, Hon Publicity Officer S Hurrell, Hon Excursions Secretary M Stoddart, Hon Website Manager TJP Williams, Hon Publications Sales Manager GT Billington.

Ordinary Members of Council:

A Clague, E Message, E Thompson. G Gilchrist, R Leong.

Holding Trustees:

S Hurrell, HE Clark, E Thompson

2. Rates of Subscription for 2024/2025

The following annual subscription rates are proposed by Council for the 2024/2025 Session:

Full members £15 Student members £5.

Tuesday 12th March 2024

Lecture by Dr Emma Biles (Liverpool John Moores University)

Title: Water pollution in the Philippines.



Emma Biles

Emma joined the School of Biological & Environmental Sciences at Liverpool John Moores University as a Postdoctoral Research Associate in 2022.

Before Emma's talk, you may be interested to know something about the state of water pollution in the Philippines.

The Philippines is made up of 7,110 islands with a land area of about 300,000 square kilometres. About 32% of its total land area is agricultural land. In the 2004 census, its population was 86.2 million; population was projected to reach 100 million in 2024. About 52% of the population live in rural areas, the rest in urban areas. There are about 85,000 manufacturing industries in the Philippines.

The rapid increase in population, urbanization, and industrialization has reduced the quality of Philippine waters, especially in densely populated areas & regions of industrial and agricultural activities. The discharge of domestic & industrial wastewater and agricultural runoff has caused extensive pollution. Pollutants include PFAS, raw sewage, detergents, fertilizer, heavy metals, chemical products, and oils. Each pollutant has a noxious effect that threatens biodiversity, and reduces overall quality of life.

Overview of Emma's talk:

Emma's talk will focus on the impact of mining and other anthropogenic activities on river water quality in the Philippines Agno catchment. We will briefly examine the history of mining in the Philippines and consider why the location is attractive, gain an understanding of the importance of water quality monitoring and review recently collected data, and reflect upon ways that the catchment might be managed to meet the needs of the future.

LGS field excursions in 2024

The lecture on Tuesday 12th March is the last indoor meeting for the 2023-2024 session. The programme of field excursions for summer 2024 is:

9th June - The Triassic of NW England. Field excursion organised by Neil Meadows.

29-30th June - Upper Gilwern Quarry near Llandrindrod Wells: trilobite collecting with Mike Stoddart.

7th July - Austwick. Study of the Craven Inlier. Field excursion organised by Peter Burgess.

1-10th August - Iceland. Field excursion organised by Hazel Clark via Izzy Tours.

Further details of these excursions will be provided nearer the time of each excursion.

General Information about Field Excursions

- Each person attending field meetings does so on the understanding that they attend at their own risk.
- Liverpool Geological Society has Public Liability Insurance Cover for field (and indoor) meetings, but Personal Accident cover and Personal Liability cover remain the responsibility of participants.
- Field meetings are open to non-members (additional £2). Some field meetings may be physically demanding. If you are uncertain, please ask. Priority is given to Members.
- Safety is taken very seriously. Please make sure that you study any risk assessment or safety briefing and that you have all the safety equipment and clothing specified for the field meeting.

Down to Earth (DTE)

Electronic copies of this publication are available for LGS members. If you would like a pdf copy of the most recent publication DTE Extra number 135 (March 2024), please email Maggie Williams (Secretary) at lgssecretary19@gmail.com and copies will be emailed to you.