



UNIVERSITY OF  
**LEICESTER**



# GREECE TRIP 2019.



June 2019

University of Leicester SEG Chapter.

For this year's international trip, ten students from the University of Leicester's SEG Student Chapter explored the metalliferous deposits of Northern Greece in partnership with El Dorado, Hellas Gold and Aristotle University of Thessaloniki.

# Greece Trip 2019.

## UNIVERSITY OF LEICESTER SEG CHAPTER.

### 1. THANKS TO

Thanks to the Stewart R. Wallace Fund awarded to us by SEG and to Chris MacKenzie of Manas Resources for acting as our industry sponsor for 2018/19, both who provided funds for our trips. Also, thank you Gemma Lawson (Ex-President of Plymouth SEG) for her detailed itinerary and contacts for this trip.

In addition thanks to Christos Stergiou, and the students and professors of Aristotle University of Thessaloniki (AuTH) SEG Chapter for contributing to our planning, hosting us at their university and orchestrating the smooth running of our visits to El Dorado and Hellas Gold. These daytrips were expertly organized by Eirini Strikou and Dimitra Nikolaidou and the great visits and workshops were run by Pavlos Tsitsanis and Panagiotis Daoultzis and co-workers from El Dorado.

Thank you to everyone who helped and participated in this trip.

### 2. PARTICIPANTS

Thanks to Christos from AuTH student chapter, for contributing to the trip planning and guiding our student's around their beautiful city, and the AuTH chapter students and professors for hosting us. Also, thank you to staff at El Dorado and Hellas Gold.

University of Leicester		Aristotle University of Thessaloniki	
Lucy Blain	Chapter Vice President, Field Trip Sec and MGeol student.	Christos Stergiou	PhD Student and AuTH Contact.
James Tasker	Undergraduate student	Fay Aravani	Student
Charlotte Clarke	Undergraduate student	Vagelis Skoupras	Student
Beth Cambridge	Undergraduate student	Foivos Kiniklis	Student
Ollie Davies	Undergraduate student		
Suzanne Horwood	Undergraduate student		
Josh Loveday	Undergraduate student		
Sean Jagger	Undergraduate student		
Jess Campbell	Undergraduate student		
Ben Voice	Undergraduate student		

### 3. TRIP AIMS

- Mining heritage (previous operations), exploration projects & current mining projects
- Regional & local geology
- Ore-forming processes, mineralising styles (e.g. stockworks) & multiple deposit types (e.g. epithermal, porphyry)
- Remediation projects/potential (e.g. Renewed exploration on brownfield sites & environmental projects-tailings)

## 4. TRIP ITINERARY

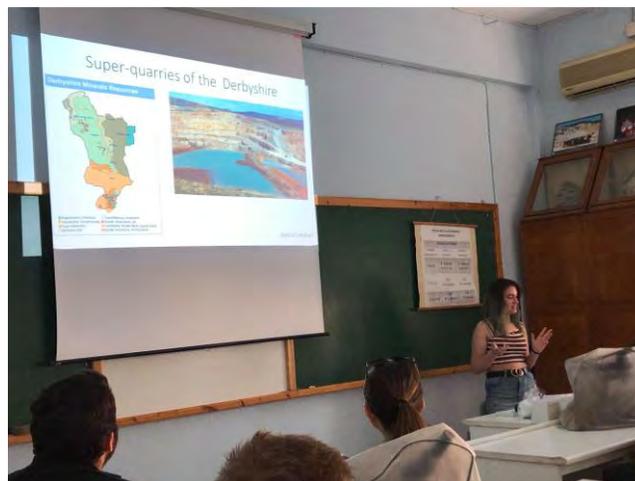
### Day 1: Monday 3<sup>rd</sup> June

The first day of our trip saw an early start from Leicester, travelling down to London Stansted Airport for our flight to Thessaloniki. Travelling with Ryanair, we arrived at 10pm into Greece and travelled to our accommodation ready to start exploring the geology of the region.

### Day 2: Tuesday 4<sup>th</sup> June

Our second day began with a trip to Aristotle University of Thessaloniki to meet their SEG chapter students and professors. We started with a great presentation from Dr. Vasilios Melfos on 'Porphyry type deposits in N. Greece and their relations with high grades in precious, rare and critical metals' which was then followed up by short presentations from our students on various aspects of British Geology:

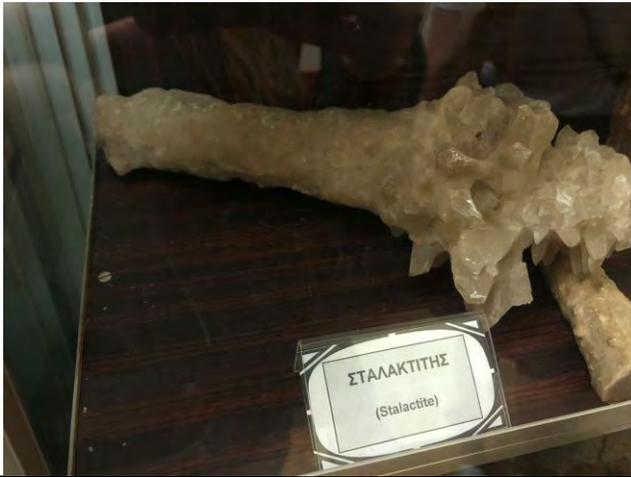
Charlotte Clarke	Coal in the UK
Suzanne Horwood	Construction Aggregates
Ollie Davies	Cornish Tin Mineralisation
Josh Loveday	Lithium in Cornwall
Sean Jagger	Limestones
Ben Voice	Cheshire Salt Geology
Jess Campbell	Super-quarries in Derbyshire
James Tasker	Welsh Gold
Beth Cambridge	Welsh Slate



Josh and Jess presenting their topics to both chapters.

We went for a tour of the department afterwards, seeing some of the amazing fossils and minerals from across Greece and joined students for a snack provided by AuTH SEG. This was followed by a guided tour of Thessaloniki's sights, led by the students who told us some of the rich history of the area, and took us for lunch at one of their favourite restaurants.

After an afternoon of exploring, we met up with some other AuTH students who introduced us to Greek cuisine with a lovely meal, before discovering the town at night.



Stalactite and Pyrite from the Mineral Collection of AuTH.



Some of the sites from our tour of Thessaloniki including the ocean front, and white tower.

### Day 3: Wednesday 5<sup>th</sup> June

Starting bright and early, we were off to visit the Olympias Mine within the Halkidiki Peninsula. This deposit was a polymetallic carbonate replacement prospect with gold, silver, lead and zinc mineralization. After a brief safety talk and kitting up in PPE, we began the trip underground. Deep under the surface we saw beautiful veins and sulphides in the working walls of the mine.



Inside the mine, showing one of the working faces and mineralized samples found on the mine floor. After a detailed tour below the surface, we ventured out into the sunshine to visit the nearby exploration core. The staff gave us an overview of the regional deposits including their new explorations sites and extracting mines. We got to handle and explore through the rocks, with an exploration of logging by El Dorado's lead geologists. As young geologists this was a great experience to meet with the senior staff, learn their techniques and see such inter



Some shots from the core yard including the amazing mineralization, and students inspecting the core.

**Day 4: Thursday 6<sup>th</sup> June**

After a train ride to Leptokarya, we visited the Olympus Geological History Museum. The owner, a keen geologist, gave us a private tour of his collection of fossils and minerals and even let us try on his armour. This great visit was followed by an afternoon at the beach.



Our students at the Geological Museum learning of the local history and geology.

### Day 5: Friday 7<sup>th</sup> June

The final day in Thessaloniki saw us visit the Perama Hill and Sapes area, visiting the exploration prospect and exploring the core from across the region. Lead by Panagiotis and the geology team, they showed us the local outcrops of interest transporting us in true exploration style: in pickup trucks. This was followed by visiting the core yard to handle some rocks with a visit from the local core yard puppy.

The end of the day saw us flying home after a great week in Greece, learning about the history, mineralisation and geology of the area and meeting a wide network of students and professionals making for an informative and enjoyable trip.



Out in the field investigating the sites of interest and under exploration.



The core showed some amazing colours and patterns show in different rock types.



Mineralised samples from the Perama Hill and Sapes area, with visible metalliferous sulphides.



Our students Josh, Jess and Charlotte taking a break with the core yard dog.