



SOCIETY OF ECONOMIC GEOLOGISTS, INC.

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Student Chapter Annual Report Cover Page

Submission Deadline: September 30th

Submit to: studentprograms@segweb.org

Month/Year Reported: From 09/2018 (mm/yyyy) – To 09/2019 (mm/yyyy)

STUDENT CHAPTER:

Check if update needed at segweb.org

Name: Camborne School of Mines Society of Economic Geologists

University Affiliation: Camborne School of Mines, University of Exeter, Penryn Campus

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YouTube: _____

Chapter Executive Committee (*in office during the time frame captured on this report*) (type "Vacant" if position not filled):
The new committee is reported on the Student Chapter Membership Information form (SCMIF).

President: Torin Bain (Co-President) tb464@exeter.ac.uk
Name E-mail

Vice President: Richard Stonehewer-Smith (Co-President) rs645@exeter.ac.uk
Name E-mail

Secretary: Rachael Lockyer rll210@exeter.ac.uk
Name E-mail

Treasurer: Matthew Bridges mb659@exeter.ac.uk
Name E-mail

Chapter Academic Sponsor: Check if SEG Fellowship in good standing

Dr. Jens Andersen J.C.Andersen@exeter.ac.uk +44 (0) 1326 371836
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Chapter Industry Sponsor (*not affiliated with the student chapter's institution*): Check if SEG Fellowship in good standing

Dr. Simon Dominy s.dominy@e3geomet.com +44 (0) 7717 337574
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Sponsoring Institution or Company(name): MG Gold Surry

Founded in 2010, the Camborne School of Mines Society of Economic Geologists (CSM SEG) is an active student chapter of the Society of Economic Geologists (SEG). The chapter focusses on providing members with exposure to industry, opportunities to network and gain key skills to complement their education here at CSM. The society is self-funded but over the last year has received generous contributions from the FXU (Student's Union) and the University of Exeter. This has allowed the CSM SEG to run a comprehensive events programme that has included a series of seminars, workshops and field trips.

Membership

At the end of the 2018/19 academic year, the CSM SEG had a membership of over 65 Student and associate members. Whilst this was a slight decrease from the 75 memberships purchased the previous year, we managed to successfully increase the proportion of undergraduate members in the society, which was one of our primary goals for the year.

The committee comprised of Torin Bain (Co-President), Richard Stonehewer-Smith (Co-President), Rachael Lockyer (Secretary), Matthew Bridges (Treasurer), Harry Atkinson (Co-Fieldtrip Coordinator) and Alda Chimuco (Co-Fieldtrip Coordinator). The committee members covered various geological disciplines and consisted both of undergraduate and postgraduate students to ensure best representation of our members' needs.

During 2017-18, 80% of the membership was formed of post-graduate members, meaning that a significant proportion of the membership would not be returning for 2018-19. Because of this, one of the main aims of the society was to increase the number of undergraduate students, ensuring an ongoing membership base and hopefully increasing participation. Having a keen and engaged undergraduate membership base would enable a smooth transition between future committees that would be familiar with the society's vision and goals. Having successfully increased undergraduate membership we now have a keen new committee for the 2019/20 year and look forward to building on this going forward.

SEG Events

The SEG ran a number of events throughout the year on a diverse range of topics, with a main focus on employability post-university. Highlights included a well-attended talk by CSM alumni Hugh Richards titled 'Your career in Exploration Geology' and a comprehensive trip of the South Crofty Mine and site.

'Introductory event – Film Screening of "Blood Diamond"' Friday 5th October 2018

'Jobs, CV's & Applications' by Benedikt Steiner, Friday 16th November 2018

'South Crofty Guest lecture' by Aaron Wilkins, Tuesday 12th February 2019

'Tour of South Crofty Mine' Wednesday 13th February 2019

'Your career in Exploration Geology' by Huw Richards (CSM), Friday 15th March 2019

'Your journey after CSM' by Diane Paradise (CSM), Friday 29th March 2019

'Introduction to Micromine' by Tom Pratelli, Wednesday 24th April – Thursday 25th April 2019

'Rosevale Mine Tour' Saturday 18th May 2019

'Processing Mineralogy short course' by Professor Alan Butcher, 13th July – 14th July 2019

‘Jobs, CV's & Applications’ Workshop 2018

The CSM SEG and Benedikt Steiner (CSM & XPLORE GLOBAL) hosted a one-day CV workshop for postgraduate and undergraduate students at CSM. The workshop provided information on how to structure CVs, cover letters and generic application advice. This event was held successfully last academic year and was again successful this year. Specifically, this workshop was helpful in assisting students with applications to summer placements and employment following their degrees.

‘Introduction to Micromine’ Workshop 2019

The CSM SEG hosted a two-day technical workshop at CSM to develop our members’ software skills, something which is becoming increasingly expected by employers. The Introductory Short Course run at CSM was the same that is offered by Micromine to early-career professionals and resulted in a certificate and qualification for attendees, which can be used as proof of basic competence in the software. Attendees were taught the basic practices and functionalities of the Micromine software and focussed on real datasets provided by the company. Techniques covered in the course included the basics of forming a drillhole database to display traces, right through displaying lithological and assay data up to wireframing for modelling purposes. Overall, the course was well attended by students and industry professionals. The Micromine staff were so happy with the event that they have offered to return again in 2019/20 for a more advanced Workshop.

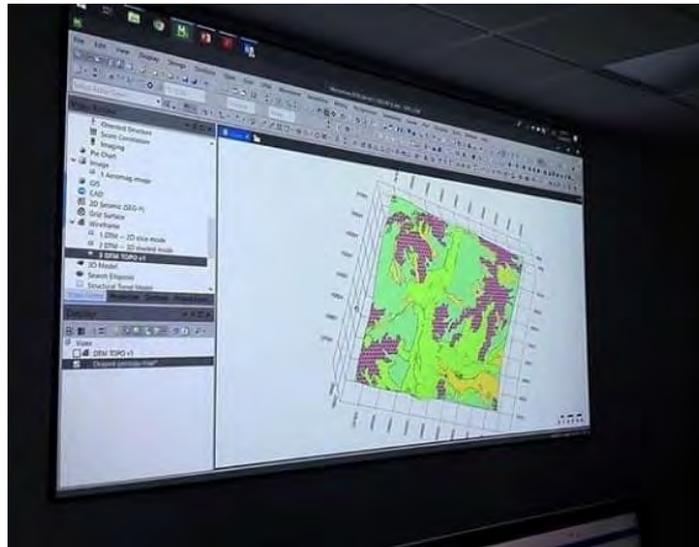


Figure 1: Overlaying drillhole traces with a geological map, one of the many skills taught during the course.

‘South Crofty Guest lecture’ & ‘Tour of South Crofty Mine’ 2019

CSM SEG members were given the opportunity to visit and learn about the South Crofty Mine during a two-part event in early February 2019. The first part of the event saw Aaron Wilkins, Chief Geologist at South Crofty, visit to give a talk on the history and planned future of the mine – with a focus primarily on the ore deposit and its exploitation. The talk was well attended and well received, with Aaron giving an extremely informative lecture on what is a hugely interesting project both locally and internationally.



Figure 2: CSM SEG Members at South Crofty with the Cook's Kitchen Shaft headframe in the background, an iconic part of the local landscape and Cornish Mining History.

This evening event was followed by a visit to South Crofty Mine the next day, which allowed our members to add context to

Aaron's talk and reinforce the knowledge they had gained. For many of our members this was their first time underground and so was a great experience. We began with an underground tour of the workings that sit above the water table, as much of the old mine workings remain submerged at this time. Despite this, we were able to view a number of expansive open stopes and learn about the mineralisation styles and extraction techniques used. After returning above ground we were also able to tour the wider mine site, to see where the infrastructure for re-opening the mine was being constructed. The tour was very enjoyable and the staff extremely knowledgeable and informative. Due to the good impression made by our members, we have been extended an invitation to return again in the 2019/20 year, when hopefully the dewatering of the mine will be well underway. We would like to thank Owen Mihalop and Aaron Wilkins at Strongbow Exploration for this opportunity and wish them all the best for the coming months.



Figure 3: Aaron Wilkins, Chief Geologist at South Crofty, leading an underground tour for CSM SEG Members.



Figure 4: CSM SEG Members exiting South Crofty mine up the Tuckingmill Decline at the end of their tour.

‘Rosevale Mine Tour’ 2019

We were lucky enough to get the opportunity late in 2019 to tour Rosevale Mine, near Zennor. This privately funded restoration project has been undertaken over the past 40 years by a small group of volunteers using traditional methods and materials to preserve the underground workings as an authentic Cornish tin mine. Whilst Rosevale was not one of Cornwall's major mines, it is now one of the only complete examples of the underground workings of a Cornish mine. One of the main

objectives of the Rosevale Mine project is to preserve an important part of Cornwall's industrial heritage by restoring the underground workings to a similar condition when the mine last worked during the 1910s. A longer-term aim is also to consolidate the remains of the dressing floors. The volunteers at Rosevale have managed to create a realistic environment with the authentic feel of a working mine. The mine does not produce ore and is not a tourist mine, so we were very lucky to get the opportunity to visit.

We entered the mine on the No. 2 Level and were shown all of the workings, both from the active working of the mine and those developed during its restoration. It was fascinating to hear both the history of the mine and the trials and tribulations involved in its restoration. Rosevale is a fascinating site to visit as it gives a real insight into where the mining industry evolved from and what life was like for our predecessors, especially when compared to the conditions in underground mines today.



Figure 5: CSM SEG Committee and Chapter Members outside the No.2 Level entrance at Rosevale mine.

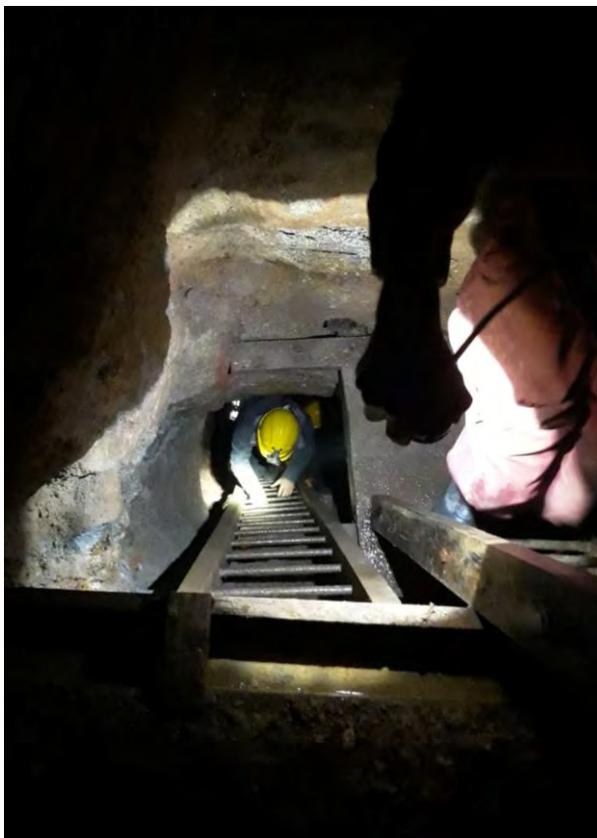


Figure 6: A - Climbing the restored ladderway up the Main Stope. B - Picture of the Main Stope taken from the restored ladderway, at this point the Main Stope is approx. 1.5 m wide

External Events

During the course of the 2018-19 year members of the SEG attended some external events, including the MDSG 2019 and the 3rd SEG Student Chapter Spring Meeting.

Mineral Deposits Study Group

The Mineral Deposits Study Group (MDSG) is an internationally attended event that this year, was hosted on Tremough Campus, Penryn. Lots of internationally recognised experts flocked to the Exeter University Campus in order to exchange their findings from their projects over the past year, with some giving updates on ground-breaking work. Talks were also given by Masters students from Universities around the country, giving lectures on their post-graduate projects. The two-day event was extremely interesting, especially being able to learn the current thinking on topics during the course lectures.



Figure 7: A - Dr Benedikt Steiner of Xplore Global and CSM giving a talk during the MDSG Conference. B - A busy poster session and networking opportunity.

Forthcoming Year

A new committee was established following the CSM SEG Annual General Meeting 2018/19, with new members being added following the Freshers' Fayre at the start of the 2019/20. The new Committee features an almost even split between undergraduate and postgraduate students, enabling us to best represent the needs of our respective cohorts. The 2019/20 Committee is as follows and we wish them all the best for the coming year:

Co-President: Matthew Burford

Co-President: Ben Stainton

Treasurer: Torin Bain

Secretary: Rory Eakin

Fieldtrip Coordinator: Joshua Chambers

Industrial Liaison: Kiara Brooksby

Postgraduate Liaison: Esme Whitehouse