



# SOCIETY OF ECONOMIC GEOLOGISTS, INC.

7811 Shaffer Parkway • Littleton, CO 80127-3732 USA • Tel: +1.720.981.7882 • Fax: +1.720.981.7874 • E-mail: seg@segweb.org

## Student Chapter Annual Report Cover Page

Submission Deadline: September 30th

Submit to: studentprograms@segweb.org

Month/Year Reported: From 11/2022 (mm/yyyy) – To 09/2023 (mm/yyyy)

STUDENT CHAPTER:

Check if update needed at segweb.org

Name: SEG Student Chapter Freiberg

University Affiliation: TU Bergakademie Freiberg

Mailing Address: Institute für Mineralogie, Brennhausgasse 14, 09599, Freiberg

Dedicated E-mail: segfreiberg@gmail.com

Website: https://tu-freiberg.de/seg

Logo: \_\_\_\_\_

Facebook: SEG Student Chapter TU Bergakademie Freiberg

Twitter: \_\_\_\_\_

Instagram: seg\_freiberg

LinkedIn: https://www.linkedin.com/company/seg-sc-freiberg

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: Dino Leopardi d.leopardi@hzdr.de

Name

E-mail

VicePresident: Tina Wesiger wesigertina@yahoo.de

Name

E-mail

Secretary: Jonathan Weber jones.weber@gmx.de

Name

E-mail

Treasurer: Marie Guilcher m.guilcher@hzdr.de

Name

E-mail

Chapter Academic Sponsor:

Check if SEG Fellowship in good standing

Prof. Thomas Seifert thomas.seifert@miner.tu-freiberg.de +49 3731 392662

Name

E-mail

Phone

Brennhausgasse 14, 09599, Freiberg +49 3731 392610

Address

Fax

Chapter Industry Sponsor (not affiliated with the student chapter's institution):  Check if SEG Fellowship in good standing

Jörg Nessler jnessler@excellonresources.com +49 173 1772768

Name

E-mail

Phone

Ferdinand-Reich Straße 1, 09599 Freiberg, Germany

Address

Fax

Sponsoring Institution or Company(name): Excellon Resources



## **SEG Student Chapter Freiberg**

# **Student Chapter Freiberg Annual Report 2022/2023**

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**Institute of Mineralogy  
Department of Economic Geology  
and Petrology  
Brennhausgasse 14  
D-09599 Freiberg,  
Saxony, Germany**

**segfreiberg@gmail.com  
tu-freiberg.de/seg  
facebook.com/SEG.Freiberg  
Instagram: seg\_freiberg**

## 1) Executive Committee SEG SC Freiberg 2020/2021

The current SEG student chapter committee was elected in early November 2022 and consists of four people studying or doing their Ph.D. at the TU Bergakademie Freiberg.



**President**

**Dino Leopardi**

Ph.D. student – Economic Geology



**Vice-President**

**Tina Wesiger**

M.Sc. student – Economic Geology



**Secretary**

**Jonathan Weber**

M.Sc. student – Geology



**Treasurer**

**Marie Guilcher**

Ph.D. student – Economic Geology

## 2) General information

The SEG Student Chapter Freiberg on the 2022/2023 term organized a series of activities, including guest presentations, social events, a two-day excursion and one small field trip. Due to low post-Covid matriculation numbers at the Economic Geology program at the university, combined with graduation of several M.Sc. and Ph.D., the Chapter had a fall in active member numbers, limiting the participation in activities.

## 3) Student Chapter Members 2022/2023

In the term 2022/2023, the SEG Student Chapter Freiberg had 35 members and 9 of them are student members of the Society of Economic Geologists. Members are students of geoscience in a bachelor (minor), master (major) program or Ph.D. students. Their field of study is primarily Economic Geology but some members study Sedimentology, Tectonics, Mineralogy or Mining engineering.

Last Name	First Name	Status
Barczynski	Tom	M.Sc. student
Bohlender	Paul	M.Sc. student
Buarque Andrade	Laura	Ph.D. student
Cacciatore	Enzo-Enrico	Ph.D. student
Cerny	Jan	Ph.D. student
Erdmann	Maria-Sophie	M.Sc. student
Faizy	Shelly Mardhia	Ph.D. student
Gotsch	Fabian	M.Sc. student
Guilcher	Marie	Ph.D. student
Günschel	Laura	M.Sc. student
Haschke	Sebastian	Ph.D. student
Höllige	Alexander	M.Sc. student
José	Antonio Albertino	M.Sc. student
Keseberg	Martin	M.Sc. student
Leopardi	Dino	Ph.D. student
Lippke	Hannes	M.Sc. student
Mallas	Ellen	M.Sc. student
Martens	Ferdinand	M.Sc. student
Mehner	Julia	M.Sc. student
Nourizenouz	Zahra	Ph.D. student
Perplies	Daniel	M.Sc. student
Poralla	Matthias	M.Sc. student
Schröter	Jan	M.Sc. student
Schulz-Isenbeck	Jan	M.Sc. student
Siebenhaar	Tobias	M.Sc. student
Stoltnow	Malte	M.Sc. student
Swinkels	Laura	M.Sc. student
Triebert	Sebastian	M.Sc. student
Wesiger	Tina	M.Sc. student
Bagci	Emre	Ph.D. student
Kalmbach	Jana Carola	M.Sc. student
Reichel	Frank	M.Sc. student
Friedrich	Willy Max	B.Sc. student
Bunzula	Violeta Lavinia	M.Sc. student
Weber	Jonathan	M.Sc. student

**Table 1:** List of the current SEG Student Chapter Freiberg members. Highlighted in blue are the members with a SEG student membership.

## 4) Lectures and talks

Like previous years, the organization of Economic Geology talks remained a key part of the Chapter activities in the term 2022/2023. This year's main goal was to achieve a balance between industry, science and vocational topics to cover the diverse aspects of Economic Geology. The Chapter hosted eight talks held by geologists from the industry, university lecturers, and researchers. Moreover, the Chapter co-organized the SEG 2023 Conference Field Trip (FT-02) Seminar. Field trip attendees, industry professionals, SEG SC Freiberg members and students from different Czech universities attended the seminar.

A summary of the talks is presented below.

- 15<sup>th</sup> December 2022: **The Freiberg District**  
*Jörg Nessler – Project Geologist at Excellon Resources (Germany)*
- 19<sup>th</sup> January 2023: **Debunking the myth of Germany being a country poorly endowed in (high technology) raw materials (presentation and institute tour)**  
*Dr. Jens Gutzmer – Head of the Helmholtz Institute Freiberg for Resource Technology (Germany)*
- 2<sup>nd</sup> February 2023: **Hyperspectral outcrop characterization with drone and tripod mounted sensors**  
*Dr. Sam Thiele – Researcher at the Helmholtz Institute Freiberg for Resource Technology (Germany)*
- 23<sup>rd</sup> March 2023: **Crustal recycling in the Central European Varicides- The Causal Relationship of Tin and Uranium Deposits in the Erzgebirge**  
*Dr. Uwe Kroner – Lecturer at the TU Bergakademie Freiberg (Germany)*
- 20<sup>th</sup> April 2023: **Geology and History of the Silver Valley**  
*Samuel Hatfield – Mining Engineer at Hecla Mining (US)*
- 30<sup>th</sup> June 2023: **Making sense of mineral trace-element data: Common pitfalls in statistical analysis and how to avoid them**  
*Dr. Max Frenzel – Researcher at the Helmholtz Institute Freiberg for Resource Technology (Germany)*
- 30<sup>th</sup> July 2023: **First Steps as a Geologist in Australia: Work, Life and Geology**  
*Sebastian Haschke – Exploration Geologist at Pilbara Minerals (Australia)*
- 18<sup>th</sup> August 2023: **Erzgebirge SEG Conference Field Trip (FT02) Seminar (co-organized)**  
*Various presenters from the Helmholtz Institute Freiberg for Resource Technology, TU Bergakademie Freiberg, Excellon Resources, Deutsche Lithium and Geomet (Germany, Czech Republic)*

## 5) Field trips

The SEG Student Chapter Freiberg organized the following field trips and short excursions during the 2022-2023 period:

- 24<sup>th</sup>– 25<sup>th</sup> November 2022** **Zinnwald-Cínovec Day Excursion (Germany and Czech Republic)**  
*Guides: Tomáš Vrbický (GEOMET) and Prof. Thomas Seifert (TU Bergakademie Freiberg)*

Participants: 27 students; 13 (SEG SC Freiberg) and 14 (SGA SC Prague)

### Day 1

- Visit the core shed of Geomet, and presentation of the Cínovec project.
- Tour of the facilities and core viewing of the project.
- Drive to the Zinnwald exploration project and visit the active drilling rigs.
- Guided visit to the underground Zinnwald mine.
- Drive back to Freiberg and networking evening between the Prague and Freiberg Student Chapters.

### Day 2

- Visit of the TU Bergakademie Freiberg mineral collections and the Terra Mineralia museum.



Figure 1: SEG SC Freiberg members and Prague students in the underground Zinnwald mine.

### 14<sup>th</sup> June 2023 Heavy Mineral Prospecting

*Guides: Marie Guilcher and Dino Leopardi (Ph.D. students at the Helmholtz Institute Freiberg for Resource Technology)*

Participants: 5 students (SEG SC Freiberg)

- Gold and heavy mineral prospection in Zellwald, Freiberg.



**Figure 2:** SEG SC Freiberg members prospecting for heavy minerals in the creek.

**15<sup>th</sup> – 17<sup>th</sup> June 2023**

**West Erzgebirge Excursion (Germany and Czech Republic)**

*Guides: Marie Guilcher and Dino Leopardi (Ph.D. students at the Helmholtz Institute Freiberg for Resource Technology)*

*Participants: 11 students; 8 (SEG SC Freiberg), 2 (SGA SC Prague), 1 (SEG SC Brno)*

**Day 1**

- Visit the Sn-W Geyer greisen deposit, Germany.
- Drive to Jáchymov, Czech Republic.

**Day 2**

- Underground visit to the 10<sup>th</sup> and 12<sup>th</sup> levels of the U-Ag-Bi-Co-Ni-As Jachymov mine, Czech Republic.
- Visit to the open pit Sn-W greisen Hub Stock deposit, Czech Republic.

**Day 3**

- Underground visit to the Tannenberg visitors mine (Sn-W greisen deposit) and visit to the topaz-breccia outcrop in Schneckenstein, Germany.
- Drive back to Freiberg.



**Figure 3:** SEG SC Freiberg members and students from the SGA Prague and SEG Brno Student Chapters in front of the Svornost shaft from the Jáchymov mine, Czech Republic.

## 6) Social Activities

Social events organized during the 2022-2023 period served to promote the Chapter as a platform for networking between students and professionals and to raise funds for the field trips and activities of the Chapter:

### **Christmas Party (12<sup>th</sup> Dec 2022)**

This was the first year after Covid that the traditional Christmas Party could take place again. The event was free of cost for members, non-members, and friends of the Chapter contributed by donation. With two guest lectures, the event helped promote the Student Chapter and the upcoming events for the next term. A total of 22 students, university staff and industry professionals attended.

### **Summer Fest (30<sup>th</sup> June 2023)**

We organized an outdoor BBQ for this event to which university students, chapter members and industry professionals were invited. The event was free of cost for members, whereas non-members and industry professionals of the Chapter contributed by donation. A total of 35 students, university staff and industry professionals attended.

## 7) Participation in Conferences, Field Trips and Short Courses

In 2022/2023, the members of the SEG Student Chapter Freiberg participated in conferences and other SEG Student Chapters field trips:

27<sup>th</sup>-29<sup>th</sup> August, 2023:

### **Resourcing the Green Transition**

SEG 2023 Conference, London

Participants: 5

9<sup>th</sup>-15<sup>th</sup> September, 2023:

### **Energy Raw Materials of the Czech Republic**

SEG Student Chapter Brno Field Trip, Czech Republic

Participants: 1



## Future Activities

The student chapter is heading in October to NE Greece for eight days for our big field trip of the year, where we will visit several epithermal, porphyry and skarn deposits in the Rhodope region.

The next election for the Executive Committee of the SEG SC Freiberg 2023/2024 is planned for November 9, 2023, a month after the start of the Winter- Semester at the TU Bergakademie Freiberg.

Whereas the new committee will decide on next year activities, we have planned a series of events aimed to increase the membership, participation in international events, networking and increasing industry-related relevant activities of the students, which include:

### Day Excursions

Following the success of our Heavy Mineral Prospecting and the Day Excursion to the Zinnwald-Cínovec deposit, we aim to increase the number of day excursions as they offer more flexibility for students to join and can take advantage of the mineral and geological wealth of the surrounding region. We plan to repeat the Heavy Mineral Prospecting excursion at the end of October and to visit historical deposits and exploration projects in the Erzgebirge (dates to be defined).

### Field trips

Apart from smaller day excursions, we plan to offer like every year at least one week-long field trip to classical mineral districts worldwide (e.g., Morocco, NE Spain).

### Epithermal vein targeting and drill campaign planning short course

Taking advantage of the university location in the world-known Freiberg historical silver district, this short course aims to help the students get familiar with the practical aspects of field exploration, using epithermal veins as a study case. Through a series of exercises, the students will learn how to combine field mapping with legacy data to plan a drilling campaign targeting mineralization. Industry professionals with experience in the Freiberg district will support this short course (dates to be defined).

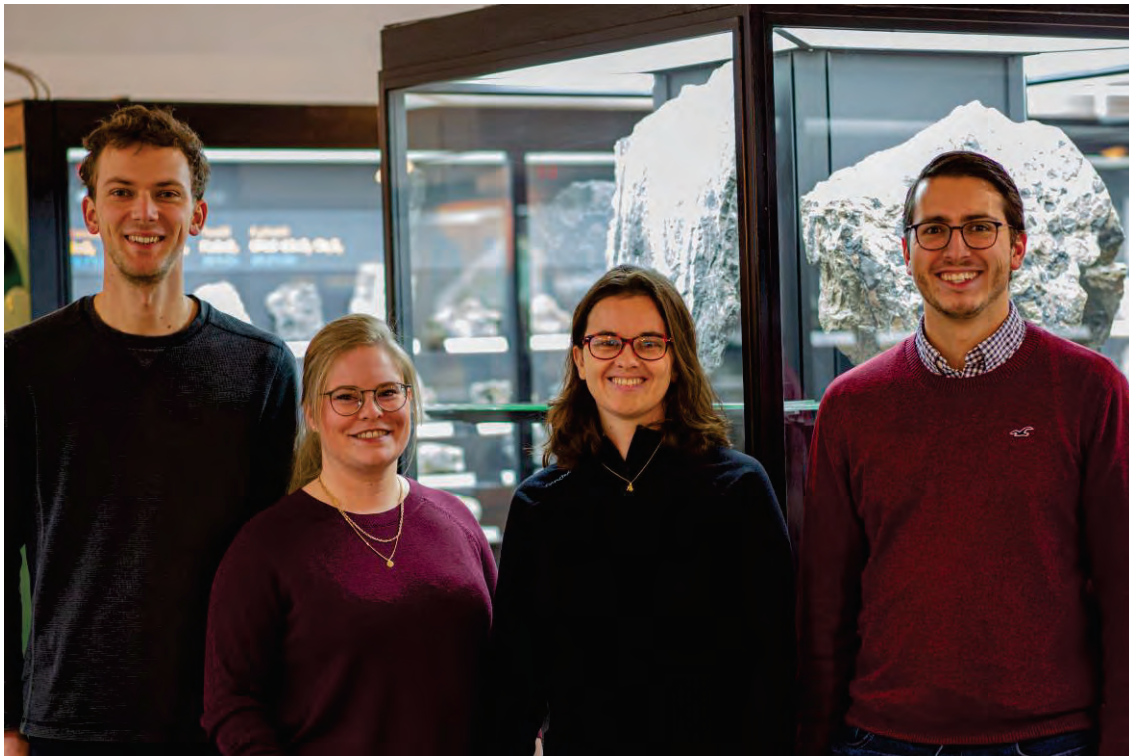
### Outreach to other Student Chapters and universities

Collaborations with SEG SC Brno and the SGA SC Prague during the 2022-2023 term resulted in several successful joint field trips and activities. Therefore, we want to increase our outreach to other Student Chapters in Europe and worldwide to collaborate with field trips and increase student exchange. Similarly, students from the neighboring Halle University attended this year field trips (e.g., West -Erzgebirge Excursion). Our Chapter also met the SEG Student Chapter Bogotá that visited Freiberg. Being one of the only two active SEG Student Chapters in Germany, we aim to increase our footprint and serve as a platform for students from other universities that are interested in Economic Geology.

### Guest lectures

We aim to continue to host lectures that include topics related to Economic Geology by combining scientific, industry and vocational lectures.

Our Chapter is currently in talks with researchers and field geologists in industry working in Europe and Morocco to organize the next months' lectures.



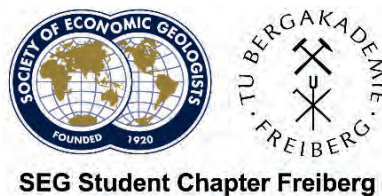
In the name of all members of the SEG Student Chapter Freiberg in the term 2022/2023, we thank the Society of Economic Geologists for all the support for our Chapter!

## Glückauf!

On behalf of the SEG Student Chapter Freiberg



Dino Leopardi, President



Freiberg, 29 September 2023

email: [segfreiberg@gmail.com](mailto:segfreiberg@gmail.com)

Dino Leopardi

Tina Wesiger

Jonathan Weber

Marie Guilcher

**President**

**Vice-President**

**Secretary**

**Treasurer**