Student Chapter Annual Report Form

This form is used to report on Student Chapter activities over the previous year. The report provides a useful medium to document the status and progress of individual chapters. Annual Reports are used to evaluate applications for SEG support and to keep information up-to-date on the SEG website. Please provide a summary of chapter activities in a concise form as suggested below. Description of programs may be supported by a limited number of photographs and figures in a format appropriate for publishing on our website.

Submission Deadline: September 30th
Submit to: studentprograms@segweb.org

Month/Year Reported: From 10/2017 (mm/yyyy) – To 09/2018 (mm/yyyy)

Chapter Name: **SEG Student Chapter Leoben**
Chapter Mailing Address: segunileoben@gmail.com
Chapter E-mail: segunileoben@gmail.com
Chapter Website: 
Chapter Facebook: [https://www.facebook.com/groups/357596897717464/](https://www.facebook.com/groups/357596897717464/)

Chapter Executive Committee *(in office during the time frame captured on this report) (type “Vacant” if position not filled)*:

- **President:** Timotheus Steiner  
  Name: timotheus.steiner@gmail.com
- **Vice President:** Christian Harrer  
  Name: christian-wolfgang.harrer@stud.unileoben.ac.at
- **Secretary:** Florian Dax  
  Name: florian.dax@stud.unileoben.ac.at
- **Treasurer:** Gabriel Nievoll  
  Name: gabriel.nievoll@gmx.at

Chapter Academic Sponsor *(SEG Fellow membership in good standing)*:

- **Johann Raith**  
  Name: johann.raith@unileoben.ac.at
  Phone: +43 3842402620
  Address: 8700 Leoben, Peter Tunner Straße 5
  Fax: +43 384247016

Chapter Industry Sponsor *(SEG Fellow membership in good standing and not affiliated with the student chapter’s institution)*:

- **Benedikt Steiner**  
  Name: benedikt@xplore.global
  Phone:
  Address:
  Fax:

Sponsoring Institution or Company (name): **XPLORE GLOBAL Ltd.**

**Attach:**

1. a list of names of *all* Student Chapter members (please indicate by * if SEG Student Member).
2. complete Student Chapter Membership Information form with the *current* Executive Committee listed on page 1.

On a separate page(s) provide a *summary* of student chapter annual activities:

1. Regular meetings, lectures
2. Field trips (dates, area visited, field trip leaders, number of participants, sponsors, benefits for students).  
   **Note:** this is not the place for a detailed field trip report that is required from a chapter who has received funding from the Stewart R. Wallace Fund.
3. If your chapter received funding from the Stewart R. Wallace Fund, please submit a separate actual accounting of how chapter funds were spent/used.
4. Organization of conferences, workshops, short courses (theme, number of participants, benefits for students)
5. Participation in conferences, workshops, short courses (theme, number of participants from the chapter, benefits for students)
6. Fund-raising programs
7. Other programs
8. Future plans

Aug2015VS
*Florian Dax
*Christian Horvat
*Alexandra Russ
*Gabriel Nievoll
*Peter Brandner
*Jakob Kulich
*Christian Harrer
*Timotheus Steiner
*Florian Hutter
*Elisabeth Böhm
*Jaqueline Krivetz
*Veronika Gartner
*Matthias Hahn
*Elias Grantl
*Berenice Ebner
Katharina Haider
Tristan Hajek
Annual Report

2017/18

SEG Student Chapter

Montanuniversität Leoben

October 2017 – September 2018
1.) Regular meetings and lectures

October 24, 2017  Regular meeting, shaping the plan for the coming period
8 participants

November 28, 2017  Regular meeting, discussion of a possible graphite
underground mine excursion, evaluation of the coal
excursion
8 participants

December 12, 2017  Regular meeting, mainly planning the “my SEG Europe
Conference”
9 participants

January 16, 2018  Regular meeting, different minor issues
11 participants

February 26, 2018  Regular meeting, different minor issues
7 participants

March 15, 2018  Regular meeting, final planning for the “my SEG Europe”
conference
9 participants

April 2018  no regular meeting due to long Easter holidays.

May 2, 2018  Regular meeting (compensatory for April), evaluation of the
conference
8 participants

May 3, 2018  Lecture about Future Exploration from Dan Wood (SEG
Travelling Lecturer)
30 participants

May 16, 2018  Regular meeting, first thoughts about next year and some
minor issues
7 participants

June 26, 2018  Regular meeting, election of the new executive committee
9 participants
2.) Field trips

**November 11, 2018**  
**Field trip to the former coal mine in the Fohnsdorf-basin, Styria**  
*Guides: Prof. Dr. Frank Melcher and Prof. Dr. Reinhard Sachsenhofer (both Montanuniversitaet Leoben).*  

15 participants guided by two of our University Professors and one former miner visited the remnants of the former mining activities in the alpine Fohnsdorf-basin. Once the deepest underground brown coal mine in the world, it was closed in the late 1970s because of economic reasons. Part of the field trip was visiting the open-pit mine, a museum of the underground mine and the dump, which is now mined for granulate material used e.g. for the floor of tennis courts. Participants learned – beside other issues - about the geology of the basin, the genesis of the coal deposit and the exploitation of the coal, including (geological) challenges the mine had to face.

**June 10-12, 2018**  
**Field Trip to Tiroler Steinöl company,**  
*Guide: Prof. Dr. Reinhard Sachsenhofer*  

Tiroler Steinöl company is a small company mining oil shales in Bächental (Tyrol, Austria) and distilling them to get synthetic crude oil for medical use. The 7 participants which took part were informed from Prof. Sachsenhofer about geoscientific topics and from a company man about the distilling process, further processing and the marketing of the products. Part of the excursion - beside the mine and processing facility - were also a local mining museum, a lime and marl quarry and some geological sights of this area (e.g. a burning coal seam).
3.) “my SEG Europe” Conference

Date: April 4 – 6, 2018

Other than in the previous years the SEG-SC Leoben decided not to organize a workshop in 2018 but a conference. The aim of “my SEG Europe” (abbreviation for: meeting of young scientists of economic geology in Europe) was to focus on students to present their actual topics of their MSc or PhD thesis concerning economic geology.

18 participants from 5 countries took part in the conference. The conference offered the participants interesting presentations about different topics related to economic geology and an opportunity to connect with each other. In addition, our keynote speakers gave valuable insights about fingerprinting of conflicts minerals and the present and future of metallogeny including future possibilities of exploration. The keynotes were hold by Prof. Frank Melcher and Prof. Walter L. Pohl. On the third day of the conference an optional excursion to the iron-ore mine at Erzberg took place.

Speakers:

- William Smith (Magmatic Ni-Cu-PGE Sulfide Potential of the Labrador Trough, Northern Quebec)
- Joshua Smiles (Trace elements and ore formation in the Troodos and Parys Mountain VMS systems: A link to modern SMS deposits?)
- Alexander Ordosch (Scheelite in calc-silicate rocks at Messelingscharte, Hohen Tauern, Austria)
- Krzysztof Foltyn (Applying analysis of organic matter in investigating Kupferschiefer deposits in Poland)
- Slawomir Mederski (Preliminary studies of the polymetallic mineralization in the Kizhnica area, Kosovo)
- Daniela Wallner (Mineralogy and Mineral Chemistry of Polyphase Au-Ag-As-Cu-Bi Mineralization at Rotgülden, Austria)
- Nenad Djukic (Modern corrections for calculation of gravity anomalies)
- Timotheus Steiner (A molybdenum mineralization in the Tauern Window, Austria: Characterization and Metallogenesis)
4.) Participation in workshops

April 23 -28, 2018

SEG Student Chapter Brno Field Trip Vol. VII: Mineral deposits of Poland. Excursion to various mineral deposits and mines in Poland.
1 participant from our student chapter.

June 8 - 9, 2018

Workshop about Coal Petrology & Palaeogeothermics held by Prof. Dr. Rafael Ferreiro Mählmann from the TU Darmstadt, organized from the SEG SC Munich. 1 participant from our student chapter.
5.) Future plans

2018 – 10  
**Field Trip to former underground bauxite mines**  
In Unterlaussa mining for bauxite took place from 1919 to 1964. It’s the only known significant bauxite deposit of middle Europe. Two years ago, the SEG SC Leoben visited this former mine. One of the participants wrote his Master Thesis about this deposit. With new knowledge and because of great interest last time, the SC Leoben plans to visit the bauxite mines again.

2018 – 11  
**Field Trip to the former Pb-Zn mine Mezica (Slovenia)**  
In Mezica, Slovenia, near to the Austrian border there is a former carbonate-hosted lead-zinc mine. It is a Mississippi-Valley Type deposit at the eastern edge of the Karavanke Mountains. Today Mezica is a tourist mine with an enclosed mining museum and can therefore be easily visited. A special underground tour for geologists can be arranged.

2018 or 2019  
**Field Trip to the Kaisersberg graphite mine**  
In Kaisersberg, Styria, a company mines graphite underground. For further Information about the mine see [http://www.grafit.at](http://www.grafit.at)

2018 or 2019  
**Visit of the talc mine Rabenwald**  
In Rabenwald the company IMERYS Talc Austria mines talc. It is the biggest talc mine of middle Europe.

January 11-12 2019  
**Workshop on Salt-tectonics**  
Prof. Urai from the RWTH Aachen University will hold this short course.

Spring 2019  
**Additional Annual workshop or conference**  
Possible topics so far are:  
- Critical metals  
- Genesis of the Erzberg mine deposit  
- MVT-Deposits
6.) Pictures of Field trips

1: Erzberg mine
2: Mined dumps, Fohnsdorf basin
3: Coal outcrop, Fohnsdorf basin
4: Participants of the coal excursion