



## Annual report 2008/09

**Year Reported:** 10/2008 – 10/2009

**Student Chapter Name:** SEG Student Chapter TU Bergakademie Freiberg

Mailing Address for chapter: segfreiberg@googlemail.com

Website: <http://seg.tu-freiberg.de>

**Student Chapter Executive Committee 2008/09:**

President: Friederike Minz

Vice President: Sören Rode

Secretary: Maria Häring

Treasurer: Doreen Mikitiuk

**Student Chapter Academic Sponsor:**

PD Dr. rer. nat. habil. Thomas Seifert

Department of Economic Geology and Petrology

Institute of Mineralogy

Brennhausgasse 14

D-09596 Freiberg/ Free State of Saxony/ Germany

Fon: +49 - 3731 - 39 3527

Fon: +49 - 3731 - 39 2662

Fax: +49 - 3731 - 39 2610

**Student Chapter Industry Sponsor:**

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**Sponsoring Institution or Company:**

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**Summary of annual activities:**

1. Regular meetings, lectures:

- regular meetings of SC-members took place at first or third Wednesday every month
- 12<sup>th</sup> November 2008: lecture of Prof. Jens Gutzmer (Tech. University Freiberg) about:  
“*Geometallurgie - wer, wie, was und warum*” (“Geometallurgy – who, how, what and why”)
- 29<sup>th</sup> January 2009: lecture of Dr. Jens Schneider (Katholieke Universiteit Leuven, Belgium) about:  
“*Hard mortars - soft models: the unique Rb-Sr chronometer in sphalerite and the genesis of sediment-hosted base metal sulfide deposits*”
- 2<sup>nd</sup> April 2009: lecture of Prof. Stephen Kesler (University of Michigan, USA) about:  
“*Earth’s Ultimate Mineral Resources: Tectonic Diffusion and Geochemical Cycles*”
- 16<sup>th</sup> April 2009: lecture of Dr. Thomas Driesner (ETH Zürich, Switzerland) about:  
“*Dynamik von erzbildenden hydrothermalen Systemen*” (“Dynamics of ore-forming hydrothermal systems”)
- 22<sup>nd</sup> April 2009: lecture of Dr. Ulf Kempe (Tech. University Freiberg) about:  
“*Einführung in das Verhalten der Seltenerd-Elemente (REE) in geologischen Prozessen (mit Beispielen zur Lagerstättenbildung)*” (“Introduction to the characteristics of rare earth elements (REE) in geological processes (examples regarding formation of ore deposits)”)
- 29<sup>th</sup> May 2009: lecture of Dipl.-Geol. Dirk Sandmann (Tech. University Freiberg) about:  
“*Freiberger Lagerstädtistrikt*” (“The ore district of Freiberg”)

## 2. Field trips:

- a) Visitor mine and dumps in and around the Ag-Pb-Cu-Zn district Freiberg / Saxony  
date: 05/29/2009 – 05/31/2009  
leader: Sören Rode  
number of participants: 13 (including 8 students of the Martin-Luther-University Halle-Wittenberg)
- b) Morsleben salt mine (shaft Bartensleben)  
date: 06/29/2009  
leaders: Dr. H. Blanke, H. Kögler; organization: Thomas Dittrich, Friederike Minz  
number of participants: 8  
benefits for travelling costs
- c) Ore deposits of Perú  
date: 09/14/2009 – 10/06/2009  
leader: Fernando Panca; organization: Friederike Minz, Fernando Panca, Sören Rode, PD Dr. Thomas Seifert  
number of participants: 25  
areas visited and contacts:
- Yanacocha, 09/17/2009 – epithermal high-sulfidation Au system  
Daniel A. Merino Natorce (geologis) Nilton Champy Sarmiento (geologist), Brian Arkell (Director Geology & Exploration)
  - Lagunas Norte, 09/19/2009 – epithermal high-sulfidation Au system  
Luis Sánchez (geologist), Carolina Sánchez del Aguila
  - Pierina, 09/21/2009 – epithermal high-sulfidation Au-Ag system  
Carmen Quispe (geologist)
  - Antamina, 09/22/2009 – Cu-Zn skarn deposit  
Jhon Espinoza Miranda (geologis), Guillermo Rojas Velarde
  - Lima, 09/24/2009 – Pontificia Universidad Católica del Perú, Ingeniería de Minas  
Silvia Rosas Lizárraga  
invited speaker: Miguel Cardozo (Director Exploandes), topics:
    - “Exploración Minera en el Perú: Actualidad y Futuro”
    - “Peruvian Andes: Geology & Mineral Potential”
  - Raúl y Condestable, 09/25/2009 – *IOCG* deposit  
Marco Mendoza Menez (geologist)
  - Orcopampa (Chipmo Mine), 09/30/2009-10/01/2009 – epithermal Au deposit  
Juan Carlos Salazar and Carlos Villon (geologists)
  - Arcata, 10/02/2009 – intermediate sulfidation Ag-Zn-Pb deposit  
Jameson Linares (geologist)
  - Cerro Verde, 10/03/2009 – hydrothermal Cu-Mo deposit (Porpyry system)  
Luis Tejada Alvarez and José Valdivia (geologists)
- Sponsors:
- Financial support and donation in kind:
    - Freunde und Förderer der TU Bergakademie Freiberg e. V.
    - KSL Kupferschiefer Lausitz GmbH
    - MIBRAG (Mitteldeutsche Braunkohlengesellschaft mbH)
    - terra mineralia TU Bergakademie Freiberg
  - Sponsors and hosts within Perú:
    - Compañía de Minas Buenaventura (Orcopampa mine)
    - Compañía Minera Ares S.A.C., Hochschild (Arcata mine)
    - Minera Barrick Misquichilca S.A. (Lagunas Norte and Pierina mines)
    - Minera Yanacocha S.R.L., Compañía de Minas Buenaventura
    - Sociedad Minera Cerro Verde
    - Trafigura, Compañía Minera Condestable S.A.A. (Raul y Condestable mine)
    - Volcan Compañía Minera S.A.A. (Antamina mine)
- benefits for travelling costs, free accommodation in Orcopampa and Arcata

3. Organization of conferences, workshops, short courses (subject, number of participants, benefits for students) -----

4. Participation in conferences, workshops, short courses (subject, number of participants from the Student Chapter, benefits for students):

participation in the 7<sup>th</sup> Freiberg Short Course in Economic Geology: “Broken Hill-type Zn-Pb-Ag deposits”

5. Fund-raising programs -----

6. Other programs -----

7. Future plans:

- a) 16<sup>th</sup> November 2009: Prof. Dr. Larryn Diamond is invited to give talks in Freiberg
- b) participation in the 8<sup>th</sup> Freiberg Short Course in Economic Geology: “Metallogeny and Exploration of Uranium Deposits”
- c) lecture about some Australian ore deposits (Martin Griebmann)
- d) field trip to the repository for radioactive wastes in Morsleben
- e) field trip to Pb-Zn-Ag deposits of the Harz Mountains
- f) field trip to dumps and mines in and around the Ag-Pb-Cu-Zn district Freiberg
- g) field trip to the legendary Au, Ag, Cu mines of Slovakia; Banska Bystrica, Libethen, Banska Stiavnica, Farbiste,...., one week trip (summer term)
- h) field trip to barite and Fe deposits of the Black Forest (3 to 4 days)
- i) ...