



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 09/2022 (mm/yyyy) – To 09/2023 (mm/yyyy)

STUDENT CHAPTER:

Check if update needed at segweb.org

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University Affiliation: China University of Geosciences, Beijing

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Logo: N/A

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Twitter: N/A

Instagram: N/A

LinkedIn: N/A

YouTube: N/A

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: Zhengyu Long zhengyulong.geo@qq.com
Name E-mail

VicePresident: Yuechuan Feng 6768148@qq.com
Name E-mail

Secretary: Yu Wang 931860083@qq.com
Name E-mail

Treasurer: Xiangyong Jiang 15527854313@163.com
Name E-mail

Chapter Academic Sponsor: Check if SEG Fellowship in good standing

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Prof. Richard Goldfarb rjgoldfarb@me.com
Name E-mail Phone

No.29 xueyuan Road, Beijing China University of Geosciences, Beijing
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Sponsoring Institution or Company(name): N/A

	Student Name	E-Mail Address	SEG Member
President	Zhengyu Long*	zhengyulong.geo@qq.com	Yes
Vice-President	Yuechuan Feng*	6768148@qq.com	Yes
Secretary	Yu Wang*	931860083@qq.com	Yes
Treasurer	Xiangyong Jiang*	15527854313@163.com	Yes
Other Exec. Member	Tong Zhou*	zhoutong_1996@163.co	Yes
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Yixue Gao	gaoyixue2020@qq.com		

Student Chapter Annual report

1- Date:

September. 28th 2023

2- Region:

China University of Geosciences, Beijing (CUGB), China

3- Name:

Zhengyu Long. Address: No.29 Xueyuan street, Haidian district, Beijing.

E-mail: zhengyulong.geo@qq.com

4- Activities undertaken from October 1, 2022 to September 31, 2023 :

Field trip

- i. SEG-CUGB Student Chapter conducted field trips in Weishan REE deposit in Shandong province from August 7th to August 11th, led by Prof. Kunfeng Qiu.
- ii. SEG-CUGB Student Chapter organized field trips in the Jiaojia gold deposit and Linglong gold deposit in Jiaodong gold province from May 31st to August 31st, led by Prof. Kunfeng Qiu.
- iii. SEG-CUGB Student Chapter conducted field trips in the Xiahe-Hezuo gold district in West Qinling Orogen from July 1st to August 4th, led by Dr. Haocheng Yu.
- iv. SEG-CUGB Student Chapter conducted field trips in the Jinshan deposit in West Qinling Orogen from August 8th to August 12th, led by Dr. Jianan Fu.



Fig. 1. Field trip in Jiaodong gold province and west Qinling orogen

Academic lecture

i. Prof. Kunfeng Qiu, the advisor of the SEG-CUGB Student Chapter, invited 11 international experts in economic geology, geochemistry, and machine learning, etc., to give academic online talks for the SEG-CUGB Student Chapter in 2023.

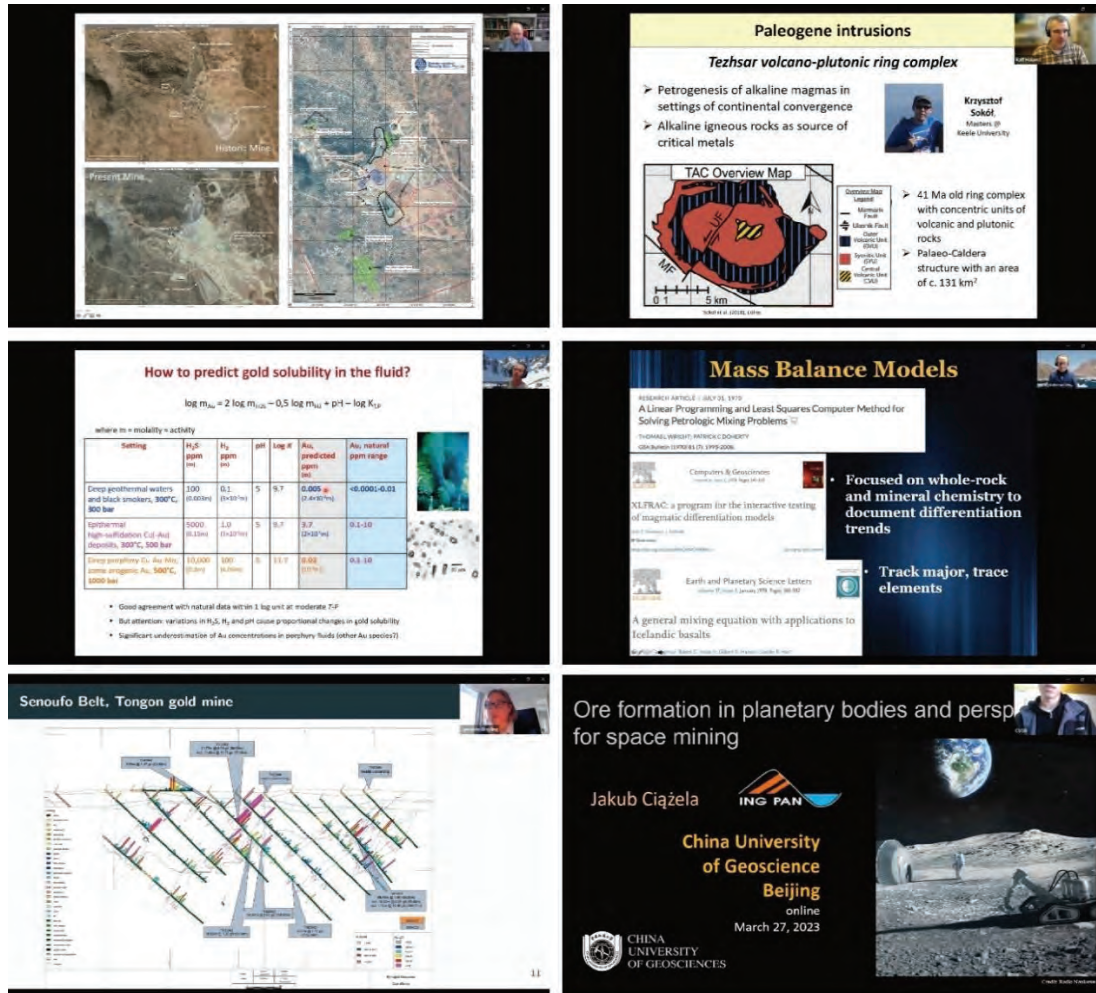


Fig. 2. The online report for SEG-CUGB Student Chapter

ii. Prof. Rolf Romer from GFZ German Research Centre for Geosciences, Prof. Maurizio Petrelli from the University of Perugia, and Prof. Richard Goldfarb from Colorado School of Mines were invited to China University of Geosciences (Beijing) by Prof. Kunfeng Qiu. They gave lectures to the SEG-CUGB Student Chapter.



Fig. 2. The lectures for SEG-CUGB Student Chapter

iii. Dr. Zhengyu Long, a member of the SEG-CUGB Student Chapter, made an academic report titled "Role of subducted sediments in the genesis of alkaline silicate rocks with giant REE deposits: evidence from lithium isotopes" on Goldschmidt conference on July 112, 2023.



Fig. 3. Academic reports on Goldschmidt 2023 conference

iv. We organized courses named 'Introduction to Gold Mines'. The member of the SEG-CUGB Student Chapter introduced the different types of gold deposits to the undergraduate and graduate students at CUGB.



Fig. 4. Sharing in the 'Introduction to Gold Mine' course

v. We hosted the academic meeting every week. Students shared progress in their work and took this opportunity to discuss the problems they encountered.



Fig. 5. The Chapter members share their work in the weekly meeting

Funding raising

- i. Zhengyu Long won the Hugh McKinstry Fund in 2023.
- ii. Jingyuan Zhang and Yiwei Cai won the 2023 Graduate Innovation Fund Project of China University of Geosciences, Beijing.

5- Funding:

SEG-CUGB Student Chapter received the Stewart R. Wallace fund with \$800 on July 1, 2022. According to the application, this fund will be used for fieldwork in the Jiaodong gold province and Luxi REE district.

6- Proposed initiatives and opportunities for SEG in the near future:

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- i. We will organize a field trip in Jiaodong gold province at the end of 2023.
 - ii. We will continue to host the weekly academic lectures within our student chapter and invite students interested in economic geology to join us.

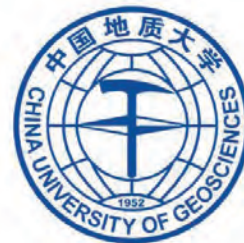
7- Varia:

We are very grateful to SEG for providing us with field assistance. We hope to communicate with student branches in other countries outside China, carry out academic lectures with them, and learn and share the experience of branch development.

CUGB Student Chapter 2023 Field trip report

The full report can be found under separate cover on the SEG Student chapter web page.

Orogenic Gold Deposits and REE Deposits in China



April, 26th, 2023 – October, 1st, 2023

Presented by: China University of Geoscience (Beijing) SEG Student Chapter

Fig. 21. Geological sketch map of the Weishan REE deposit.

The Weishan REE deposit is located in the southwestern Yicheng uplift of the western Luxi Terrane (34°70' N, 117°26' E). The Weishan REE deposit is a typical underground mining deposit (Fig. 21). The rocks outcropped in the mining area include Neoproterozoic Wutai granitic gneiss, Mesozoic Yanshanian quartzite syenite, aegirine syenite, and alkaline granite. The Neoproterozoic granodiorite basement is intruded by Mesozoic magmatic rocks that exhibit irregular branching.

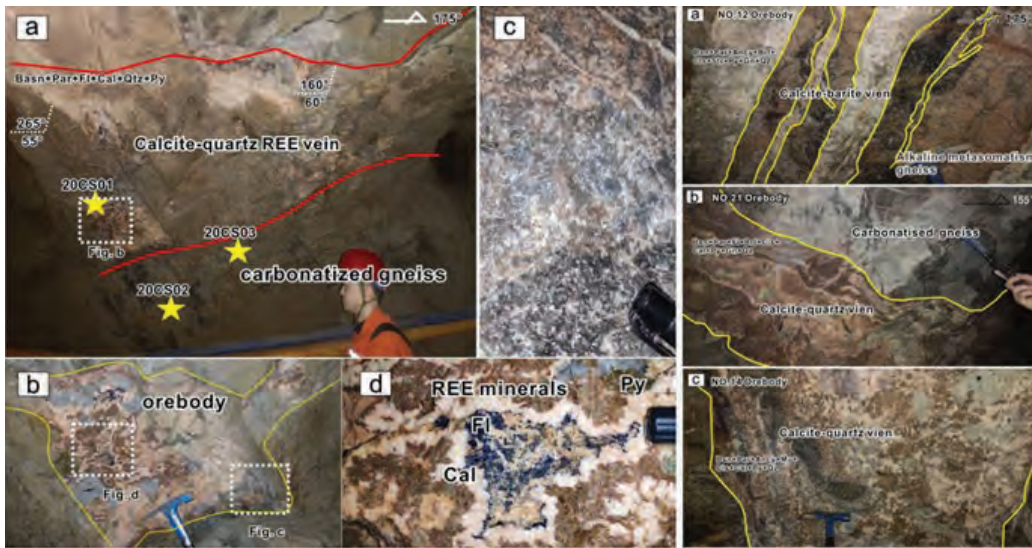


Fig. 22. Field photo of Weishan REE deposit.

Carbonatite and alkaline rock are the host rocks of the Weishan REE deposit (Fig. 22). Bastnaesite and parascapite are the primary rare earth minerals, with ancylite and calcian-ancylite occurring in trace amounts. The gangue minerals in the carbonatite include calcite, quartz, celestite, barite, and sulfide, with fluorite, apatite, titanite, zircon, and monazite present in smaller amounts. Rare earth minerals are also present.

Financial statement

The SEG-CUGB Student Chapter's field trip in Shandong province was funded by the Stewart R. Wallace Fund, China University of Geosciences, Beijing, and NSFC of Prof. Kunfeng Qiu. \$800 from Stewart R. Wallace Fund was used to pay for the transport of 4 Student Chapter Members. Other participants' expenses (\$1533) are paid by the China University of Geosciences, Beijing, and the NSFC Fund of Prof. Kunfeng Qiu. The details of the expenses are provided below with the receipts attached.

	Income	Expense	Expense	Receipts order
Stewart R. Wallace Fund	\$800	High-speed rail	\$213	5
		Gas fee	\$185	3
		Flight ticket	\$403	3
NSFC of Prof. Kunfeng Qiu (J221001)	\$764	Transport	\$493	
		Accommodation	\$271	
China University of Geoscineces, Beijing (590221020)	\$769	Transport	\$533	
		Accommodation	\$229	

Benefit for students

Field trips were designed to enhance what students learn in the classroom. The goal was to let students see, touch, and experience things that would otherwise just be a line in a textbook or a picture on a classroom wall. Engaging in visual and hands-on learning methods through field trips can also build confidence for students who struggle to engage and learn in a traditional classroom environment. Field trips offer them more freedom to learn without as many constraints or expectations.

Chapter members learned a lot about the ore deposit by observing structure, alteration, mineral associations, and spatial relationships. Students become familiar with the necessary fieldwork skills, such as taking field photographs and taking sampling. During the field trip, the students deepened their field cognition of the orogenic Au deposits and REE deposits. Students improved their fieldwork skills through discussion and cooperation.