



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 October 2019 (mm/yyyy) – To September 2020 (mm/yyyy)

STUDENT CHAPTER:

Check if update needed at segweb.org

Name: Aristotle University of Thessaloniki (AUTH) SEG Student Chapter

University Affiliation: Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, School of Sciences, Aristotle University of Thessaloniki GR-541 24, Thessaloniki, GREECE

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Logo: https://authsegen.files.wordpress.com/2020/02/84028688_2682527181830822_4310769154991849472_n.png?w=300&h=300

Facebook: https://www.facebook.com/AUTH.SEGStudentChapter/

Twitter: _____

Instagram: _____

LinkedIn: _____

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: Christos Stergiou

cstergio@windowslive.com

Name

E-mail

VicePresident: Foivos Kiniklis

kiniklis@geo.auth.gr

Name

E-mail

Secretary: Eftychia Peristeridou

peristee@geo.auth.gr

Name

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Treasurer: Dimitrios Baliakas

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Name

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Chapter Academic Sponsor:

Check if SEG Fellowship in good standing

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

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Sponsoring Institution or Company(name): Independent Consultant



ANNUAL REPORT 2019-2020

AUTH SEG STUDENT CHAPTER

Submitted by:

Christos Stergiou, President

and

Eftychia Peristeridou, Secretary

ARISTOTLE UNIVERSITY OF THESSALONIKI
AUTH SEG STUDENT CHAPTER
ANNUAL REPORT FORM 2019-2020

General Information

YEAR REPORTED: 2019 – 2020

CHAPTER NAME: AUTH SEG Student Chapter

STUDENT CHAPTER WEBSITE: <https://authseg.wordpress.com>

STUDENT CHAPTER E-MAIL ADDRESS: segweb@geo.auth.gr

STUDENT CHAPTER FACEBOOK PAGE:

<https://www.facebook.com/AUTh.SEGStudentChapter>

STUDENT CHAPTER ACADEMIC SPONSOR: Dr. Vasilios Melfos, Associate Professor,
Department of Mineralogy, Petrology and Economic Geology, School of Geology,
Aristotle University of Thessaloniki, Greece

STUDENT CHAPTER SPONSOR: Dr. Thomas Sant, Independent Consultant

Outgoing Executive Committee 2019-2020

	Name	Title	E-mail address
1	Christos Stergiou	President	cstergio@windowslive.com
2	Foivos G. Kiniklis	Vice President	kiniklis@geo.auth.gr
3	Eftychia Peristeridou	Secretary	peristee@geo.auth.gr
4	Dimitrios Baliakas	Treasurer	dbaliakas@gmail.com
5	Eleni Pegioudi	Other Exec. Member	pegioudi@geo.auth.gr

Newly Elected Executive Committee 2020-2021

	Name	Title	E-mail address
1	Eftychia Peristeridou	President	peristee@geo.auth.gr
2	Christos Stergiou	Vice President	cstergio@windowslive.com
3	Dimitra Perperi	Secretary	dperperi@geo.auth.gr
4	Eirini Margiola	Treasurer	margiola@geo.auth.gr
5	Thelexiopi Antonia Kimpizi	Other Exec. Member	thelxiopi@geo.auth.gr

Members of AUTH SEG Student Chapter

	Name	Status	e-mail
1	Christos Stergiou*	PhD candidate	cstergio@windowslive.com
2	Anastasia Varela*	MSc student	varelanast@geo.auth.gr
3	Dimitris Papadimitriou*	MSc student	DPapadimitriou@geohellas.com
4	Eftychia Peristeridou*	MSc student	peristee@geo.auth.gr
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18	Stefania Andriopoulou	MSc student	stef.geology@gmail.com

19	Aikaterini Panora	Student	aikatpanor@geo.auth.gr
20	Giorgos Panagiotidis	Student	gpanagioti@geo.auth.gr
21	Lazaros Charitopoulos	Student	clazaros@geo.auth.gr

* Indicates SEG Student membership

Activities and Field Trips

The AUTH SEG Student Chapter organized several activities during the outgoing academic year. Chapter members were involved voluntarily in the organization of scientific meetings, social events, and field trips. The program of this year was severely affected by the Covid-19 pandemic response measures. The activities of the student chapter in the academic year 2019-20 are summarized below:

1. October 2019 - March 2020 – Scientific Exhibition “Minerals and Man”

Ten members of our student chapter participated as volunteer guides at the scientific exhibition “Minerals and Man” which took place at the Aristotle Natural History Museum of Thessaloniki from October 2019 to March 2020. Despite the heavy load of this position, the members of the chapter had the skills and qualifications to manage this kind of guides, offering their assistance and doing an excellent work.

2. October 18, 2019 – Chapter meeting

The first meeting of the chapter for the academic year 2019-20 was organized on October 18th, 2019 at the Department of Mineralogy, Petrology, Economic Geology, of the Aristotle University of Thessaloniki. Two scientific presentations were held by the chapter members Ch. Mytigliaki and E. Skoupras. The first talk presented by Christina Mytigliaki was focused on the major attapulgitic deposits worldwide and in Greece. The second presentation held by Evangelos Skoupras discussed the antimony deposits in Greece. After the lectures, the AUTH SEG Student Chapter Committee presented the forthcoming planned activities and discussed with the members the possible future plans and their ideas.

3. October 24, 2019 – 1st Scientific Meeting

The AUTH SEG Student Chapter in collaboration with the Department of Mineralogy, Petrology, Economic Geology, School of Geology, Aristotle University of Thessaloniki, invited Dr Dimitrios Rallakis, post-doc researcher at the University of Lorraine in France, who gave a lecture on October 24th, 2019. The topic was about the “Biochemical conditions during the formation of uranium minerals in roll-front systems” (**Fig. 1a**). Dr Rallakis presented the ore-formation conditions of the Zoovch Oovo uranium deposit, which is located at the East Gobi basin in Mongolia, and is hosted in a Late Cretaceous silicic-clastic reservoir at the lower part of the East Gobi basin. The formation of the deposit is attributed to epigenetic processes which caused the enrichment in U of the organic materials. Several chapter members, Professors and students of the School of Geology attended the lecture which was followed by an interesting discussion.

4. November 15, 2019 – Field-trip to marble quarries of Stone Group International at Kavala and Drama, Northern Greece

On Friday, November 15th, 2019, 13 students, members of the AUTH SEG Student Chapter, along with the academic advisor Associate Professor Vasilios Melfos, held a field trip at two marble quarries owned by Stone Group International at Kavala (Hemarus quarry) and Drama (Haemus quarry) in Northern Greece. This field-trip

was funded by the Society of Economic Geologists (SEG) through the SEG Foundation Round II 2018 Student Chapter Funding from the Stewart R. Wallace Fund. In addition, the reporter Mrs. Efi Giannopoulou, covered the field-trip for Stonenews.eu, an international online media targeted on news of the marble industry in Greece.

Hemarus quarry is located at “Nikites”, in the broader Nestos area, near Kavala city (**Fig. 1b**). The quarry covers an area of 150.000 m², it is developed in the marbles of Pangaion Unit of Rhodope Massif, and is expected to produce up to 150.000 tons of marble per year when it will be fully operational. Hemarus grey marble is characterized by white to light grey background colors and by grey veining which is developed horizontally, diagonally or in a cloudy pattern. Mr. Antonios Kalaitzis and Dr. Corinna Pipera, the quarry manager and the senior geologist of Stone Group International, respectively, welcomed the field-trip participants to the quarry. Mr. Kalaitzis described the exploitation process held in the quarry and emphasized on several technical issues, while Dr. Pipera presented the local geology and the exploration works held in order to expand the quarry and the future production. A lively discussion about health and safety issues, quarrying restoration and circular economy followed these presentations.

The AUTH SEG SC members were also guided by Dr. Pipera to Haemus quarry, which is located at the world-renowned marble-bearing area of Volakas near Drama city. This quarry covers an area of approximately 138.000 m², it is developed in calcitic and dolomitic marbles of Pangaion Unit, and produces approximately 14.800 tons of marble per year, with a maximum production capacity of 72.000 tons per year. Dr. Pipera and Mr. Achilleas Gatsios, mining engineer of the quarry, presented the local geology and the quarrying process (**Fig. 1c**). Final products of this quarry are the Elba Blue, Volakas Haemus, Venus Vox Light and Venus Vox Dark marble varieties. The students had the chance to become familiar with the marble cutting process and to understand how this process affects the design of the final products in the slab-processing factories.

According to the 2018 annual report of the Greek Mining Enterprises Association, the Greek marble was exported in more than 101 destinations worldwide, while the exports of unprocessed marble slabs rose by 80.75%, in respect to 2017, and reached a total value of 265 million euros. This field-trip at the Hemarus and Haemus quarries of Stone Group International offered to the participants the chance to get familiar with the marble exploration and exploitation. The student-members realized how the sustainable development of the marble industry depends upon the joint collaboration among geologists, mining engineers, quarry administrations and designers.

5. January 8, 2020 – Thayer Lindsley Visiting Lecturer (Cancelled)

On January 8th, 2020, the Chapter’s Executive Committee invited Dr. Massimo Chiaradia (2020 Thayer Lindsley Visiting Lecturer) for a lecture. Dr. Chiaradia accepted the invitation. The scientific meeting was entitled “*Basic and Useful Metals, From Magma to the Circular Economy*” and would be co-organized with the School of Geology on April 7th, 2020. Unfortunately, this meeting was cancelled due to the Covid-19 pandemic response measures.

6. January 24, 2020 – 2nd Scientific Meeting and Vasilopita

In this meeting Dr. Corinna Pipera (Senior geologist, Stone Group International) presented the role of exploration geologists in the marble industry, as well as the use of the Datamine software in open pit modeling.

After the meeting, the members of the Chapter cut the 2020 Vasilopita wishing good luck and a prosperous New Year. A fine prasem (the green variety of quartz) specimen was offered to the member who got the lucky piece.

7. February 3, 2020 – 3rd Scientific Meeting

The invited lecturer of the 3rd scientific meeting was Mr. Thodoris Veligrakis (Senior Exploration Geologist, Tethyan Resources Plc). Mr. Veligrakis presented the discovery and the exploration workings held at the Kremice Au-porphyry system in Serbia (**Fig. 1d**).

8. February 19 and 20, 2020 – 1st Flea Market AUTH

On 19th and 20th, February 2020, the AUTH SEG Student Chapter participated in the 1st Flea Market organized by the Aristotle University of Thessaloniki. The event took place in the University Campus and 31 student-groups had the opportunity to introduce themselves and sell various things to obtain financial aid for their future purposes (**Fig. 1e, f**). Our team was there, dealing with mineral and rock samples from our collections. These samples from all around Greece, had nice forms and colors, and included uvarovite, amethyst, chalcedony, serpentine, and gypsum. Our stand attracted many students from several Departments of the University who were impressed by the nice and interesting mineral and rock samples.

9. July 22, 2020 – 4th Scientific Meeting

Dr. Chris R. Siron was invited to present via an on-line platform the structural framework for the carbonate replacement orebodies in the Kassandra Mining District, Chalkidiki, Greece (**Fig. 2**). More than 20 participants attended this webinar. The participants included students and academics from the Aristotle University of Thessaloniki, the National and Kapodistrian University of Athens and the University of Patras. Geologists from the mining company Eldorado Gold SA also attended the meeting.

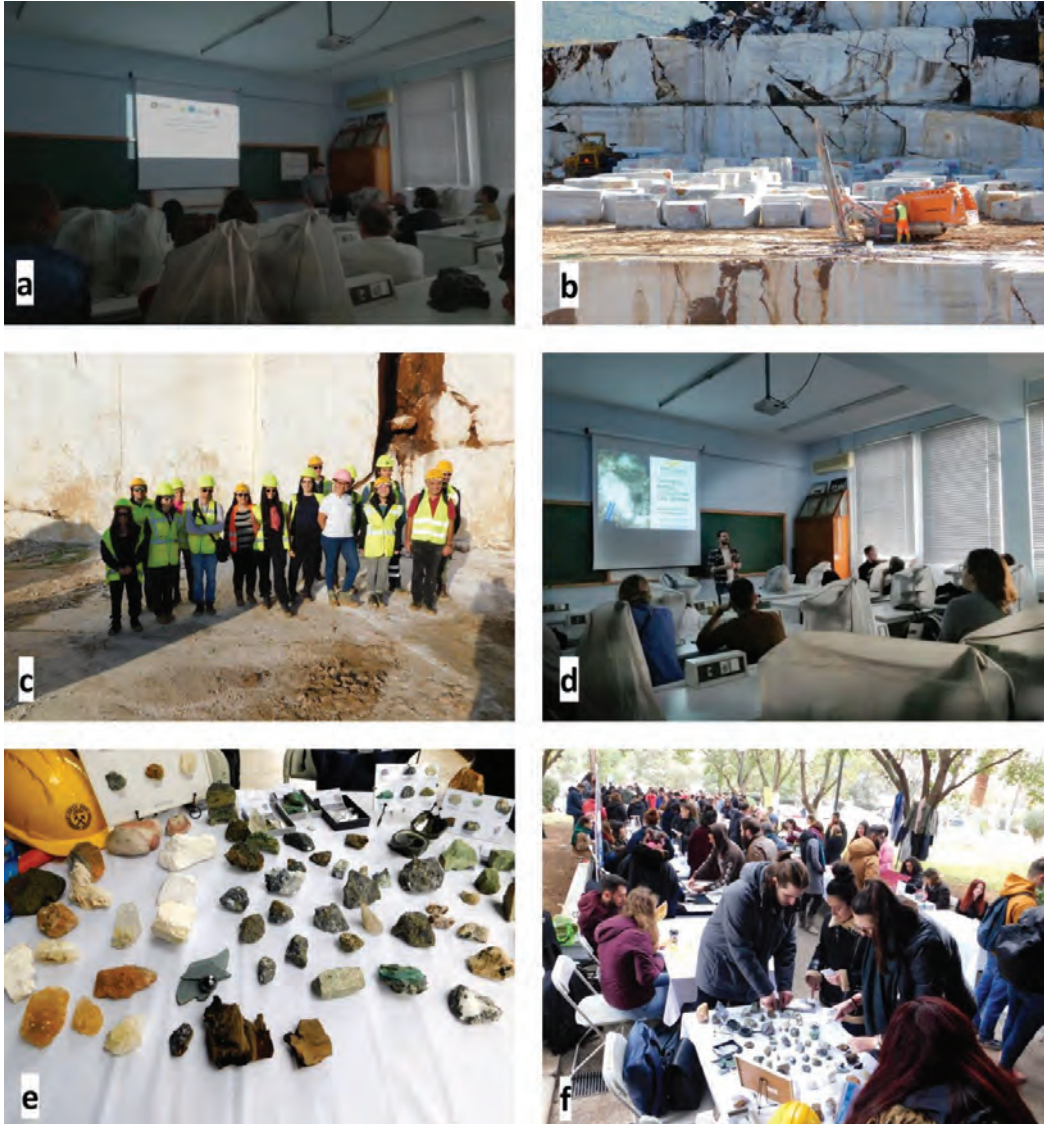


Figure 1. **a.** Dr Dimitrios Rallakis presenting the ore-forming conditions of the Zoovch Ovoo uranium deposit, East Gobi, Mongolia; **b.** Drilling at the upper parts of the Hemarus quarry (“Nikites” location, Nestos area, Kavala); **c.** The field-trip participants stand for a commemorative photo at the end of the field trip; **d.** Mr. Veligrakis presenting the discovery and exploration of the Kremice Au-porphyry system in Serbia; **e.** View of the ATh SEG Student Chapter stand with minerals and rocks in the 1st Flea Market ATh organized by the University of Thessaloniki; **f.** Several members supported the chapter’s participation in the event.

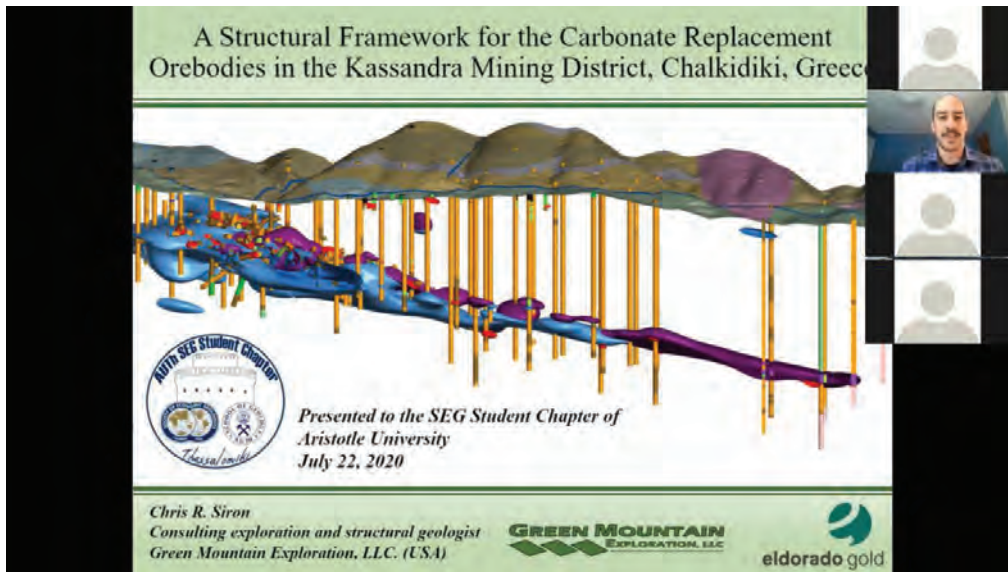


Figure 2. Dr Chris R. Siron presenting the structural framework for the carbonate replacement orebodies in the Kassandra Mining District, Chalkidiki, Greece.

Future plans for the academic year 2020-2021

- During October 9-11, 2020 the field trip to the world-class Lavrion ore deposit will be held. This field trip is funded by the Student Chapter Stewart R. Wallace Funding
- Host a 2021 SEG Lecturer
- Continue with the scientific meetings inviting geologists from academia and industry
- Application for the 2021 Stewart R. Wallace Fund, Round I