



# 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 October 2018 (mm/yyyy) – To September 2019 (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

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

Dedicated E-mail: segweb@geo.auth.gr

Website: https://authseg.wordpress.com/

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

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

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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: Foivos G. Kiniklis

kiniklis@geo.auth.gr

Name

E-mail

VicePresident: Eftychia Peristeridou

peristee@geo.auth.gr

Name

E-mail

Secretary: Christos Giapis

gchristos.95@gmail.com

Name

E-mail

Treasurer: Christos Stergiou

cstergio@windowslive.com

Name

E-mail

Chapter Academic Sponsor:

Check if SEG Fellowship in good standing

Vasilios Melfos

melfosv@geo.auth.gr

+30 2310 998539

Name

E-mail

Phone

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

+30 2310 998549

Address

Fax

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

Thomas Sant

tsant06@gmail.com

+44 798 135 9811

Name

E-mail

Phone

14 Park Road, Timperley, Altrincham, Cheshire, UK

Address

Fax

Sponsoring Institution or Company(name): Independent Consultant



## ANNUAL REPORT 2018-2019

AUTH SEG STUDENT CHAPTER

Submitted by Foivos G. Kiniklis, President

and Christos Giapis, Secretary

ARISTOTLE UNIVERSITY OF THESSALONIKI  
AUTH SEG STUDENT CHAPTER  
ANNUAL REPORT FORM 2018-2019

## General Information

YEAR REPORTED: 2018 – 2019

CHAPTER NAME: AUTH SEG Student Chapter

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

STUDENT CHAPTER E-MAIL ADDRESS: [segweb@geo.auth.gr](mailto: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 2018-2019

	Name	Title	E-mail address
1	Foivos Kiniklis	President	kiniklis@geo.auth.gr
2	Eftychia Peristeridou	Vice President	peristee@geo.auth.gr
3	Christos Giapis	Secretary	gchristos@geo.auth.gr
4	Christos Stergiou	Treasurer	cstergio@windowlive.com
5	Foteini Aravani	Other Exec. Member	faravani@geo.auth.gr

## Newly Elected Executive Committee 2019-2020

	Name	Title	E-mail address
1	Christos Stergiou	President	cstergio@windowlive.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

## Members of AUTH SEG Student Chapter

1	Christos Stergiou*	cstergio@windowslive.com	PhD Student
2	Christina Mytigliaki	c_mitigliaki@hotmail.com	PhD student
3	Eftychia Petika*	eppetika@geo.auth.gr	MSc Student
4	Sofia Christoforidou	schristofor@geo.auth.gr	MSc Student
5	Evangelos Skoupras	skoupras@geo.auth.gr	MSc Student
6	Foteini Aravani*	faravani@geo.auth.gr	MSc Student
7	Eftychia Peristeridou*	peristee@geo.auth.gr	MSc Student
8	Christos Giapis*	gchristos@geo.auth.gr	MSc Student
9	Georgia Papadopoulou	pgeorgia@geo.auth.gr	MSc Student
10	Georgaki Nefeli*	mgeorgaki@geo.auth.gr	MSc Student
11	Foivos G. Kiniklis*	kiniklis@geo.auth.gr	Undergraduate Student
12	Eleni Kontani	ekontani@geo.auth.gr	Undergraduate Student
13	Sotiris Kechagias*	kechagsi@geo.auth.gr	Undergraduate Student
14	Spyridon Fragkou*	fragkous@geo.auth.gr	Undergraduate Student
15	Vasileia Chatzi *	cvasileia@geo.auth.gr	Undergraduate Student
16	Eleni Pegioudi	pegioudi@geo.auth.gr	Undergraduate Student
17	Dimitrios Baliakas *	dbaliakas@gmail.com	Undergraduate Student
18	Eirini Chatzianagnostou*	chatz.eirini98@gmail.com	Undergraduate Student
19	Rafaela Othonos*	rafothonos@gmail.com	Undergraduate Student

\*indicates SEG Student Membership

## Activities and Field Trips

The AUTH SEG Student Chapter organized several activities and field trips during the academic year 2018-19, and the participants were involved in various subjects of economic geology.

The activities of the student chapter in the academic year 2018-19 are listed in detail below:

### **1. November 3<sup>rd</sup> 2018. Event entitled “Harmony of sounds and rocks” (Thessaloniki, Greece)**

On November 3<sup>rd</sup> 2018 a classical music concert entitled “Harmony of sounds and rocks” was organized by the AUTH SEG Student Chapter, the School of Science and the Aristotle Museum of Natural History of Thessaloniki. In this concert Associate Professor Vasilios Melfos, the Academic Advisor of AUTH SEG Student Chapter, and the music group “Art Various” presented a concert which was combined with a show with photographs of minerals, rocks, and geotopes from different areas of Greece. These photographs were from the personal collection of Professor V. Melfos. Before and after this event, the members of the AUTH SEG Student Chapter introduced to the audience the “world of minerals and rocks” with nice samples and thin sections under microscopes, and explained the various characteristics of the minerals.

### **2. February 22<sup>nd</sup> 2019. Second meeting**

During our second meeting, on February 22<sup>nd</sup> 2019, we had the opportunity to host Margarita Melfou who graduated from the School of Geology at the Aristotle University of Thessaloniki and currently studies at the University of Lorraine in Nancy, France. Margarita was one of the 16 students who participated at the SEG Student Field trip “SFT-18: EPITHERMAL PRECIOUS METAL AND COPPER-SILVER SYSTEMS OF NORTHERN CHILE” between 11<sup>th</sup> and 19<sup>th</sup> January 2019. Margarita focused on the alteration, mineralization, geochemistry, and structural setting of the hydrothermal systems at an area stretching from Atacama and Copiapó to Antofagasta. She shared with us her experience of the drill core logging of the Cu-Mo porphyry, the Au-Ag-(Cu) high-sulfidation epithermal, the Cu-Au skarn-manto vein and the Chilean Cu-Ag “manto-type” systems. Margarita referred also to the very positive feeling from the field trip leaders and mentors and the interaction with the other students.

### **3. May 22<sup>nd</sup> – 24<sup>th</sup> 2019. Participation in 15<sup>th</sup> International Congress of the Geological Society of Greece - GSG2019 (Athens, Greece)**

On May 22<sup>nd</sup>-24<sup>th</sup> 2019, the International Congress of the Geological Society of Greece took place in Athens, the capital of Greece. This Congress is a multidisciplinary earth science event, focusing mainly on the broader Aegean region and its surroundings, with the view to highlighting the contribution of geosciences to the study of natural resources, natural hazards and environment. Four members of the AUTH SEG Student Chapter (2 PhD candidates and 2 master students) presented their research studies on ore mineralization, industrial minerals and tectonics. Fifteen members attended the conference and expanded

their knowledge through oral presentations and posters.

**4. June 3<sup>rd</sup> – 7<sup>th</sup> 2019. Scientific meeting and field trips of AUTH SEG SC and University of Leicester SEG SC to Olympias, Stratoni (Chalkidiki, Greece) and Perama Hill (Thrace, Greece).**

During early June (3/6-7/6/2019) members of the AUTH SEG Student Chapter joined the 10 members of the University of Leicester SEG student chapter in the field-trip at ore deposits of northern Greece, funded by the SEG. Before the field trip, on June 4<sup>th</sup> a welcome meeting of the members of the two Student Chapters was held at the Department of Mineralogy, Petrology, Economic Geology in the University of Thessaloniki. The AUTH SEG SC academic advisor Assoc. Prof. Vasilios Melfos gave a lecture entitled: “The porphyry type ore deposits in northern Greece and their relation with high grades in precious, rare and critical metals”. After that the Leicester SEG student members held a series of brief presentations on Welsh gold, Cornish Lithium, Cornish Tin, British Limestone, Super Quarries in Derbyshire, Coal in the UK, Welsh Slate, and UK Construction Aggregates. In addition, members from both chapters had a chance to discuss on their studies and research interests and to make plans for future collaboration.

During the following three days, the members from both chapters visited the Eldorado Gold SA prospections in Chalkidiki and Thrace regions of northern Greece. The students had the chance to learn about the regional geology, the ore-forming processes and the mineralizing styles in these prospections. This field trip included the Au-Ag-Pb-Zn Olympias and the Pb-Zn Stratoni polymetallic carbonate replacement operating mines and the Au-Ag-Cu Perama Hill exploration site. Furthermore, the students were informed on exploration, mining and remediation projects held in the region by Eldorado Gold.

**5. September 6<sup>th</sup> – 8<sup>th</sup> 2019. Participation in field symposium “50 Years of Plate Tectonics” in Chromio (Kozani, Greece).**

Between June 6<sup>th</sup> and 8<sup>th</sup> 2019 members of the AUTH SEG Student Chapter participated at the “50 Years of Plate Tectonics” field symposium which was held at the village Chromio in Kozani of Western Macedonia, Greece. The symposium was dedicated to the work of Professor Eldridge Moores, who passed away last year, on the ophiolitic complex of Vourinos. The Symposium was organized by Dr Annie Rasios and focused on the research held in the area in the last 50 years. The participants visited several sites where discoveries forwarded the understanding of plate tectonics. Furthermore, the geologists of the Hellenic Mines SA company, guided the participants at the Cr exploitation and exploration sites of the company in the region.



Figure 1. The members of the AUTH SEG student chapter presenting the rock and minerals characteristics, during the Classical Music Concert in November 2018.



Figure 2. The geologist Margarita Melfou presenting her experience of the SEG funded field trip at the hydrothermal systems of Northern Chile, February 2019.



Figure 3. One of the four members of AUTH SEG Student Chapter, Foteini Aravani, presenting her research results at the 15<sup>th</sup> International Congress of the Geological Society of Greece - GSG2019, May 2019.



Figure 4. Students of SEG Student Chapter of the University of Leicester, UK, presenting several topics about the British geology during a scientific meeting hosted at the University of Thessaloniki, June 2019.





Figure 5. British and Greek members of the student chapters from Thessaloniki and Leicester Universities with the geologist Argyrios Papadopoulos of Eldorado Gold at the Olympias Au-Ag-Pb-Zn mine, June 2019.



Figure 6. British and Greek students examining drill cores from the Perama Hill Au-Ag epithermal ore deposit at Perama Hill.



Figure 7. The Aetoraches Cr mine at the Vourinos ophiolitic complex operated by Hellenic Mines SA.

## Future plans for the academic year 2019-2020

- Organizing a field trip to Central Greece Bauxite deposits in collaboration with the SEG Student Chapter of University of Patras
- Organizing field trips at: carbonate replacement deposit in Lavrion, Vourinos chromite deposits and marble deposits and quarries in Northern Greece.
- Host a Lecture of SEG Lecturer
- Host various lectures from academic and industry geologists
- Organizing presentations among the members that are related with the most significant global ore deposits
- Attend a 2-day seminar/webinar on Leapfrog and Datamine computer programs