



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: studentprograms@segweb.org

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 September 2015 (mm/yyyy) – To September 2016 (mm/yyyy)

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

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

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

Chapter Website: www.authsegen.wordpress.com

Chapter Facebook: https://www.facebook.com/AUTH.SEGStudentChapter/?fref=ts

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

President:	<u>Janja Mihajlovic</u> Name	<u>janjamg@gmail.com</u> E-mail
Vice President:	<u>Ourania Toumanidou</u> Name	<u>raniatoum@yahoo.gr</u> E-mail
Secretary:	<u>Eftychia Petika</u> Name	<u>eppetika@geo.auth.gr</u> E-mail
Treasurer:	<u>Sofia Christoforidou</u> Name	<u>scchrist@geo.auth.gr</u> E-mail

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

<u>Vasilios Melfos</u> Name	<u>melfosv@geo.auth.gr</u> E-mail	<u>+30 2310 998539</u> Phone
<u>Department of Mineralogy-Petrology-Economic Geology Faculty of Geology School of Sciences Aristotle University of Thessaloniki GR-541 24, Thessaloniki, GREECE</u> Address		<u>+30 2310 998549</u> Fax

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

<u>Thomas Sant</u> Name	<u>Tom.Sant@gr.eldoradogold.com</u> E-mail	<u>+30 6940 434 520</u> Phone
<u>Address</u>		<u>Fax</u>

Sponsoring Institution or Company (name): Eldorado Gold/Hellas Gold

- 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



ANNUAL REPORT 2015-2016

AUTH SEG STUDENT CHAPTER

Submitted by Eftychia Petika, Secretary

ARISTOTLE UNIVERSITY OF THESSALONIKI

AUTH SEG STUDENT CHAPTER

ANNUAL REPORT FORM 2015-2016

General Information

YEAR REPORTED: 2015 – 2016

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, Assistant Professor, Department of Mineralogy, Petrology and Economic Geology of the Faculty of Geology, Aristotle University of Thessaloniki

STUDENT CHAPTER INDUSTRY SPONSOR: Dr. Thomas Sant, Exploration manager, Eldorado Gold/Hellas Gold - Greece

Outgoing Executive Committee 2015-2016

	Name	Title	E-mail address
1	Janja Mihajlovic	President	gianiamn@geo.auth.gr
2	Ourania Toumanidou	Vice President	raniatoum@yahoo.gr
3	Eftychia Petika	Secretary	epetika@geo.auth.gr
4	Sofia Christoforidou	Treasurer	scchrist@geo.auth.gr

Newly Elected Executive Committee 2016-2017

	Name	Title	E-mail address
1	Margarita Melfou	President	melfmarg@geo.auth.gr
2	Maria Tsivilika	Vice President	tsivilikamaria@gmail.com
3	Christina Mytigliaki	Secretary	c_mitigliaki@hotmail.com
4	Despoina Ekleme	Treasurer	ekledesp@geo.auth.gr

Members of the AUTH SEG Student Chapter 2015-2016

	Name	E-mail address	Status
1	Janja Mihajlovic*	gianiamn@geo.auth.gr	MSc Student
2	Ourania Toumanidou*	raniatoum@yahoo.gr	MSc Student
3	Eftychia Petika*	eppetika@geo.auth.gr	MSc Student
4	Sofia Christoforidou*	scchrist@geo.auth.gr	BSc Geologist
5	Konstantinos Flevarakis*	konsflev@geo.auth.gr	Undergraduate Student
6	Christos Stergiou*	cstergio@windowslive.com	MSc Student
7	Stella Theodoridou*	stheo@hotmail.gr	MSc Student
8	Vilemini-Anastasia Karantoni	wileminikar@gmail.com	MSc Student
9	Alexandra Patsiouri	a.patsiouri@yahoo.com	MSc Student
10	Sofia Ketikidou*	sofiketi@geo.auth.gr	MSc Student
11	Elpida Marousi	elpidmar@gmail.com	Undergraduate Student
12	Margarita Melfou*	melfmarg@geo.auth.gr	Undergraduate Student
13	Evangelos Stefanou	vaggelisstefanou@yahoo.com	MSc Student
14	Markos Ioannides	markosioannides@hotmail.com	MSc Student
15	Eleni Tsigoti*	mikresapolauseis@hotmail.gr	Undergraduate Student
16	Christine Krikoni	ckrikoni@gmail.com	MSc Student
17	Katerina Giouri	agiouri@geo.auth.gr	MSc Student
18	Dimitrios Dimitriou	ddimitriou2009@gmail.com	Undergraduate Student
19	Karastergios Stylianos	karastergios_st@hotmail.com	Undergraduate Student
20	Athanasia Karetou	akaretou@geo.auth.gr	MSc Student
21	Prodromos Nikolaidis	nprodrom@geo.auth.gr	Undergraduate Student
22	Despoina Efstathiadou	efstdesp@geo.auth.gr	Undergraduate Student
23	Christina Mytigliaki	c_mitigliaki@hotmail.com	MSc Student
24	Christos Kougioulis	ckougioul@geo.auth.gr	Undergraduate Student
25	Evangelos Skoupras	skoupras@geo.auth.gr	MSc Student
26	Evdokia Leontidou	evi.leo478@hotmail.com	Undergraduate Student
27	Maria-Eleni Taxopoulou*	taxopoul@geo.auth.gr	Undergraduate Student
28	Maria Tsivilika*	tsivilikamaria@gmail.com	Undergraduate Student
29	Foteini Aravani	faravani@geo.auth.gr	Undergraduate Student
30	Eftychia Peristeridou	peristee@geo.auth.gr	Undergraduate Student
31	Despoina Ekleme*	debby_ekleme@hotmail.com	Undergraduate Student
32	Lydia Oikonomoudi	loiokonomo@geo.auth.gr	Undergraduate Student
33	Nikolaos Theocharidis	nikos.theoch@hotmail.com	Undergraduate Student
34	Styliani Effraimidou	eyfraims@gmail.com	Undergraduate Student
35	Kyriaki Fellachidou	fellachik@geo.auth.gr	Undergraduate Student
36	Konstantinos Gounaris	gusblind1995@gmail.com	Undergraduate Student
37	Antonios Christoglou*	antonischri95@gmail.com	Undergraduate Student
38	Konstantinos Kleanthous	konstantinos_kpower@yahoo.com	Undergraduate Student
39	Anastasia Zyganitidou	anastasiz@geo.auth.gr	Undergraduate Student
40	Eleni Kontani	elengeo2014@yahoo.com	Undergraduate Student
41	Aggelos Tamvakis	bakeleos1@hotmail.com	Undergraduate Student
42	Tsonidou Euriklia	evitatson@icloud.com	Undergraduate Student
43	Giapis Christos	gchristos@geo.auth.gr	Undergraduate Student

44	Georgia Papadopoulou	pgeorgia@geo.auth.gr	Undergraduate Student
45	Stella Mpragou	smpragou@geo.auth.gr	Undergraduate Student
46	Aggelos Tagalidis	agelos_tag@hotmail.com	Undergraduate Student
47	Agis Livas	livas.agis@gmail.com	MSc Student
48	Nafsika Vouta	voutanafsika@gmail.com	MSc Student
49	Aikaterini Varsami	vaikater@geo.auth.gr	
50	Evangelos Tataris	vtataris@gmail.com	MSc Student
51	Filippos Sarchosis		Undergraduate Student
52	Ilias Panagiotou		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 2015-16, and the participants were involved in the various subjects of economic geology. The significance of these activities was recognized by the Administrative Authorities of the Aristotle University of Thessaloniki which acknowledged our Student Chapter as one of the most active in the University at a special ceremony. In addition it should be mentioned that three student members (Christos Stergiou, Margarita Melfou and Maria Tsivilika) together with the Academic Advisor V. Melfos attended the SEG 2106 Conference “Tethyan Tectonics and Metallogeny” in Cesme, Turkey.

The activities of the student chapter in the academic year 2015-16 are listed in details below:

1. October 16th 2015. Field trip at the epithermal-porphyry systems in the Rhodope Metallogenic province, NE Greece – Funded by the SEG

The 1st field trip of the AUTH SEG Student chapter took place in Northern Greece on Sunday 26th September 2015. A group of 15 members of the chapter using 4 off-road vehicles drove around the Rhodope Metallogenic province visiting three major epithermal and porphyry mineralizations. On Saturday 25th September a scientific meeting, set as an introduction to the following day field-trip, was held at the Faculty of Geology, Aristotle University of Thessaloniki. The field trip was organized by Christos Stergiou and Stella Theodoridou (2014-2015 President and Secretary of the Chapter respectively) with the guidance of the Assistant Professor Vasilios Melfos, the Academic Advisor of the student chapter.

The excursion focused on three ore deposits of the Rhodope Metallogenic Province at Sapes, Kassiteres and Maronia (Fig. 1). The Tertiary Rhodope Metallogenic Province belongs to the Western Tethyan Metallogenic Belt hosting several major ore deposits of various types. Furthermore, it is a significant exploration target for porphyry and epithermal ore deposits. The deposits we visited had been chosen because there is a strong scientific background and a great scientific and industrial interest.

The purpose of this field trip was a good opportunity for the students to get familiar with the regional geology of the Southern Rhodope Metallogenic Complex, as well as with the ore

deposit types and the related ore paragenesis. The students had the chance to explore the specific metallogenic and the structural control processes of these deposits. The participants were trained in the field work related to an exploration geologist as they were introduced to the initial stages of mineral exploitation, these of greenfield and advanced exploration stages.

2. October 16th 2015. Scientific Meeting: “The formation of magmatic – hydrothermal ore deposits: from magmas to exploration” - SEG International Exchange Lecturer

The first Scientific Meeting of the ATh SEG Student Chapter took place in the framework of traveling lectureships sponsored by the Society of Economic Geologists at the Faculty of Geology, Aristotle University of Thessaloniki, on 16th October 2015 (Fig. 2). Dr. Andreas Audétat, from the Bayerisches Geoinstitut, Germany, was the 2015 SEG International Exchange Lecturer. He presented two very interesting talks and shared his experience and expertise on the study of the fluids related to magmatic-hydrothermal deposits. In his first talk “Metal content of magmatic-hydrothermal fluids and their relation to mineralization potential” he discussed the significance of fluid inclusions in the study of the mechanisms which guide the ore deposits formation and the possible correlations between fluid metal content and mineralization style. The second lecture with the title “Magmatic controls on porphyry Cu (\pm Au, Mo) formation” took in consideration the factors that affected metal concentrations in magmas related to porphyry type deposits. The Scientific Meeting included one additional talk provided by Professor Kleopas Michailidis, from the Department of Mineralogy-Petrology-Economic Geology, Aristotle University of Thessaloniki, who presented a lecture about the “Ore deposits related to layered intrusions”. Professor Michailidis has a long experience in this field, for more than 40 years.

The lectures were very motivating and comprehensible. This is evidenced by the positive, enthusiastic and encouraging feedback of all participants. The 205 registrations prove that the SEG events constitute an exceptional opportunity for the undergraduate and post-graduate students and members of our student chapter at the Aristotle University of Thessaloniki to delve into new fields in geosciences and especially in the ore deposits exploration. Many faculty members and geologists from the field of industry also attended the lectures (Fig. 3).

3. December 12th -13th 2015. Field trip at the Vourinos ophiolite and the related chromites

A two-days field trip took place in 12th - 13th December 2015 at the Vourinos ophiolitic complex in Kozani area (Fig. 4). Twenty-one members of the ATh SEG Student Chapter accompanied by Dr Annie Rassios, geologist of IGME (Institute of Geology & Mineral Exploration- Kozani branch) had the opportunity to examine one of the most interesting ophiolitic sequences in the Balkans with considerable chromite mineralization. Dr Annie Rassios, one of the first geologists who studied the ophiolite of Vourinos, shared her experience and guided the members at the most important sites of this ophiolitic sequence. The members of the Student Chapter were also accompanied by MSc Dina Gkikas and had the chance to visit the old chromite mines near Aetorachi, where chromite was mined for many decades until 1992, as well as the whole ophiolitic sequence starting from the upper part with the basalts and diabases down to the

amphibolitic sole. The formation conditions and the tectonic processes of the podiform chromite deposits in Vourinos were discussed in details with the experts Dr Rassios and MSc Gkikas.

4. April 4th 2016. Field trip at the Vathi porphyry mineralization

On Saturday 9th April 2016, 31 members of the SEG Student Chapter visited the Cu-Au±U±Mo porphyry system in Vathi, in the Kilkis ore district, N. Greece (Fig. 5, 6). The leader of the field trip was Christos Stergiou, M.Sc. student at the Aristotle University of Thessaloniki, who just completed his master thesis on the Vathi porphyry system. Mr Stergiou was the 2014-15 Student Chapter President and his master thesis was partly funded by the SEG. The members of the student chapter were informed about the latest results of Mr. Stergiou research which revealed that the mineralization is mainly oxidized and is hosted in a trachydacite, but is genetically related with a subvolcanic quartz-monzonite stock. The system exhibits an extensive hydrothermal alteration, mainly sericitic, but also a propylitic and a potassic zone are found. A phreatomagmatic breccia is associated with the quartz-monzonite and exhibits the highest concentrations in Au, Cu, U and Mo. The ore mineralization occurs as disseminations, stockworks, veins as well as pyrite D-veins. The ore mineral assemblages of the porphyry system are mainly chalcopyrite-bornite-molybdenite-magnetite and chalcopyrite-pyrite-magnetite ±stibnite which are followed by vein-type pyrite-pyrrhotite-chalcopyrite and sphalerite-galena±arsenopyrite.

5. April 16th 2016. First Aid Training

On Saturday 16th April 2016, the AUTH SEG Student Chapter members and the "RESCUE GR", a voluntary organization, co-organized a free First Aid training for outdoor accidents, at the National Stadium of Thessaloniki and the participants were trained in providing first aid in cases which may occur in the countryside as wounds, stings from insects and reptiles, stroke, bone fractures etc (Fig. 7). The members were also practiced about tying a bandage on various parts of the body.

Photographic appendix



Figure 1. The members of the AUTH SEG Student Chapter at the Maronia porphyry system.



Figure 2. Left: Dr. Andreas Audéat, Right: Professor Kleopas Michailidis. The lecturers of the scientific meeting “The formation of magmatic-hydrothermal ore deposits: from magmas to exploration”.



Figure 3. Part of the audience (students and professors) in the of the scientific meeting.



Figure 4. The 21 members of the AUTH SEG SC and Professor V. Melfos accompanied by Dr. Annie Rassios and MSc Dina Gkikas at the Vourinos ophiolitic complex.



Figure 5. The members of the AUTH SEG Student Chapter are guided by Christos Stergiou around an ore vein at the Vathi porphyry system.



Figure 6. The 31 members of the chapter who participated at the field trip standing at the top of the Vathi porphyry system.



Figure 7. A commemorative photo of the ATh SEG Student Chapter members and the RESCUE GR team.

Future plans for the academic year 2016 – 2017

- 15th -16th October: field trip at ore deposits of the Rhodope metallogenic province in Bulgaria and Greece (Ada Tepe, Kirki, Perama, Xylagani)
- Organize a 2-day seminar on ArcGIS
- Organize a 2-day seminar on AutoCad
- Host a SEG Lecture during 2017
- Host several presentations by Professors and industrial staff