ANNUAL REPORT SOCIETY FOR MINING, METALLURGY & EXPLORATION ESPOL STUDENT CHAPTER 2018

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June Olth, 2018.
Mona Vandervoort
Education Coordinator Society for Mining, Metallurgy and Exploration 12999 E. Adam Aircraft Circle.
Englewood, CO 80112.
Dear Mona,

It is an honor for me to present the 2018 annual report of the Escuela Politécnica del Litoral (ESPOL), Student Chapter of the Mining, Metallurgy and Exploration Society. During the last year, the Student Chapter in the Presidency: José Pachacama Paredes leaves the board of directors, being Roberto Moncayo who assumes the leadership as President. The Student Chapter has maintained its usual outstanding performance of the last four years.

The activities of the Student Chapter go beyond the ESPOL Campus, since it was possible to contact students from other universities in Ecuador that offer Mining Engineering programs. Event of this, there were several talks organized in ESPOL at the beginning of October (Mining Day) and for the second time the Congress of Ecuadorian mining students ECUAMINING in February, with the presence of the Ministry of the sector and public entities.

In addition, the board has been organizing several courses and technical seminars, not only for engineering students, but also for civil, geological and other undergraduate programs. With these activities, the Student Chapter is committed to learning about life, as well as obtaining funds for their activities.

Accept this annual chapter report for SME ESPOL students that details the performance of our students. This report shows that our students are involved in a country that goes from an extractive model to an extractive model with an added value in the exploitation of mineral resources.

To be honest

Sincerely,

FACULTY SPONSOR
SME- ESPOL Student Chapter 2018
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SME-ESPOL 2018
EXECUTIVE SUMMARY

Escuela Superior Politécnica del Litoral Student Chapter was created in January 2015, with the support of Peru Local Section, becoming the first SME student chapter in Ecuador.

Today SME has increased its presence in our country, through the formation of Universidad del Azuay Student Chapter (Cuenca) and the student chapter Universidad Central del Ecuador (Quito), highlights that have strengthened academy through links created between institutions.

2016-2017 period was a year of great achievements; where the number of members growth and was achieved an approach to govern authorities.

Our student members joined us for being part of academic and extracurricular activities, letting us the creation of committees, which improved planning and development of events and formation processes for the mining community.

The Ecuadorian mining industry has made great strides in recent years with the development of middle and great mining, with the arriving of multinational companies, which are more consolidated, and with a new mining frontier, which implies a new challenge for students, professionals and professors in the mining industry. For that we are committed to develop skills that let us to challenge actual problems in the industry.

Thanks to the tools that SME offer to us, we are updated and connected with the latest advances in the industry.

New goals are established each year and we, part of SME ESPOL Student Chapter, seek the growth and continuous development of the chapter and the industry.
I have been part of the SME Student Chapter since 2016. From June 2018 to the present date I have had the honor of being the president of the SME-ESPOL student chapter, during which time I have fulfilled all the functions of my position, the objectives and goals raised.

From the beginning we knew the responsibility of leading a group of students, the slogan was clear, integrate all the miners of the university regardless of their academic level.

It was really gratifying, and today SME-ESPOL has grown remarkably and has consolidated its management processes, thanks to the external support of authorities and institutions related to the mining industry. We managed to cultivate a solid relationship with public and private entities of the mining sector.

Personally, the position gave me gratifying experiences of academic and personal growth. Where I could travel to Peru, Chile and the US and meet new people, learn, share experiences and knowledge with other members, professionals, authorities and representatives of other chapters of students in the world, which has enriched me as a person.

During this year, the members of SME had the honor of sharing with Marisa Amico, representative of SME Latin America, who helped us and guided us in several processes such as the mining fair EXPOMINAS 2018 and ECUAMINING. On behalf of SME-ESPOL we thank Marisa immensely for her warmth and great openness.

Together with my friend Joel Alomalisa, vice president of the chapter in the period 2018-2019, we had the opportunity to attend the annual Congress in Denver, Colorado, of which we are very grateful, and we were able to extend ties with members, Representatives and other professionals. countries To learn about the advances and opportunities that the mining industry offers us today, it was very pleasant to share this experience with the members of the chapter.
and encourage them to participate and participate in such an important event. Our goal as students and future professionals in the mining industry is to foster relationships with others in mining communities around the world.

I am sure that an excellent work has been done during this period and I am convinced that the future directive will do the best job. The objective is and always will be to promote a united student chapter and with it integrate the necessary tools so that the members are the best in the mining area.

Sincerely,

José Pachacama Paredes  
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TREASURER’S REPORT

In the period of 2018-2019, the student chapter SME-ESPOL, has increase their members number, which was thanks to the encourage gave by the first members and the SME previous directive.

All the activities that were proposed, were achieved, with an important attendance from people of the university itself and other universities.

We were able to captivate not only persons from the career of Mining Engineering, but students and professionals from related careers as Geology an Environmental Engineering.

In this period, some doors were opening as the field was extending, bringing the students close to professionals who are working in mining companies, the association of mining engineers and also with mining political entities. Such is the case of de Mining Management course brought thanks to the AIME and the management of our president in charge. This big event had the attendance of 154 person between students from different universities and experts from different companies and entities, event that started with the right foot the period of this directive and ended up with the Ecuamining carried out in the city of Salinas, Santa Elena, Ecuador.

Almost all the activities were carried out, with discounts and prices that help the attendance of students. But not just only courses, integration activities like sports events, sales to recollect founds and so on.

To finish, I wish to ratify the honor I have felt to be part of the student chapter, during this period and since I am a member.

All that was carried out was the faithful wish of a group of future professionals who, at a small but firm pace, lead the country towards a developed, technical and responsible mining, in the interest of the progress of our country.
SECRETARY’S REPORT

During the period of management of the SME board of directors ESPOL 2018 - 2019, it has been possible to inculcate all members the greatest interest in participating in academic events related to the career of Mining Engineering, and this has been the key for the chapter to have greater Adepts in the last period.

The management of academic activities was never easy but with the help of the members and other interested people of similar careers it was possible to achieve them.

Acquiring knowledge outside a classroom is of great importance because it is in this instance where we put into practice the theory learned, that is why we managed technical visits to companies related to mining.
ACTIVITIES REPORT

STUDENT MEETINGS, COURSES AND SEMINARS

BE A SME STUDENT MEMBER

To start our activities, a meeting was held with the students of Mining Engineering, presenting the new directive and giving them the benefits that the SME provides, as well as the planning of the activities for the 2017-2018 period. We also answered some questions and received suggestions from the students. This meeting was attended by young people from different levels of the career who showed their interest in joining SME.

MINING MANAGEMENT SEMINAR

On June 2, in conjunction with the sector ministry and the association of mining engineers of Ecuador AIME. The mining management seminar where there was a massive participation of the mining students of Guayaquil and related careers with a total of 250 students.
COURSE OF ROCK MECHANICS

On the days of 5 and 6 of July, they was performed this course, dictated by the engineer Kevin Duque. Introducing basic concepts of Geomechanics and putting a prove the students with a real practice in the field, both theory and practice it was a complete experience for assintents.

The content of the course was:
- Introduction of rock mechanics and its application
- Rock mass structures and characterisation
- Support and fortification
- Types of geological faults
- Stereographic projections
- Data collection in the field
On August 2, the conference of the tunnel expert Pedro Zuloaga, belonging to the company ACCIONA, was carried out by the Metro de Quito.

The event counted with the participation of students and professionals from the branch of civil engineering, geology and mining.
This course was performed on the days 4 and 5 of October, and was dictated by the engineer Byron Andrade, an expert in this area, he was working for the construction of the Metro in Quito, but also he’s worked for mining companies in countries like Peru and Bolivia.

The resume content of the course was:

- Basic concepts of safety and health
- Productive systems
- Hazard identification and risk assessment
- Mining operations and its risks
On October 27, the Geothermal Energy conference was held on the ESPOL campus, given by M.Sc Eva Rivas, from the Polytechnic University of Madrid (Spain). The objective of this conference was to introduce the mining engineering students to certain characteristics and trends of the energy innovations that are being carried out worldwide.

The mining software was very well received in Guayaquil. SME ESPOL was the one who made room for this course that counted with the participation of 20 students and professionals. The courses consisted of geological modeling and lasted 40 hours.
On February 22 and 23, 2019, the student chapter SME Espol, organized for the second time the Ecuadorian university mining congress where all the mining students of the country are integrated. An event that hosted 400 attendees at the various conferences.
SOCIAL ACTIVITIES

OPEN HOUSE ESPOL 2018

The SME-ESPOL directive and members of the chapter made known to young people from different schools in Guayaquil, the importance of mining in the daily life of each person and the progress and appropriate procedures to develop a responsible mining. Educational and recreational activities were developed.

INTEGRATION OF STUDENT CHAPTERS

In order to improve relationship between students of each career, an integration event was organized with all the chapters of the Faculty of Engineering in Earth Sciences. SME-ESPOL collaborated with the organization of the event, in addition its members participated in the different competitions, obtaining the title of vice-champions in indoor activities. The election of the Miss Sports, contest of Yincana, championship of indoor, competition of cycling and kayak polo was realized.
On September 27, the FICT Novice Induction, conducted by the student clubs of the Engineering Faculty in Earth Sciences, was held on the ESPOL campus. The objective of this activity was to inform the novices about the details and development of the Mine Engineering degree and the student chapter in Espol. The theme of the event was Game of Thrones.
CHRISTMAS DINNER

For being a time of celebration, each year SME-ESPOL organizes the Christmas dinner, where teachers and students share this experience with games, food, dancing and lots of entertainment. This event is done with funds raised during the year. It is an opportunity for students to enjoy and build friendship ties outside of the university.

UNIVERSITY FAIR

SME-ESPOL attended the university fair to publicize the benefits of being an SME member, for which it was supported by didactic material such as models, flyers, posters and projects developed in the career. Parents, students and teachers participated in this event.
FIELDTRIPS

One of them was the visit that was made in HOLCIM Ecuador SA on October 26, 2018, where thirteen students of different semesters had the opportunity to know the facilities and the different stages that are carried out to obtain cement, as well as the new technologies that they are being applied to each time to obtain a better final product and that they adapt to the direct needs of the market.