"Over the mining shoulders, there's a lot of strength for living and making our life a precious treasure."

SME Student Chapter Medellín
# CONTENTS

## 1. INTRODUCTION

## 2. SME REPORTS

2.1 President’s report

2.2 Treasurer’s report

2.3 Secretary's report

## 3. ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS

3.1 Welcome picnic

3.2 Orica workshop – “Efficient blasting and safe use of explosives”

3.3 Induction for freshman students

3.4 Urban art festival – “Bienestar Universitario Unalmed”

3.5 Workshop – “Organización y logística de eventos”

3.6 Student Groups Fair – “Bienestar Unalmed”

3.7 Conference – “Master in geotechnics and graduate opportunities in New Mexico Tech institute”

3.8 Meeting - delivery of official chapter t-shirts and group photo

3.9 Annual Conference, Poster Contest & Move Mining Competition
3.10 Ecological walk through “Chorro de las campañas, salto del Ángel” 23
3.11 Meeting – gifs and snack 24
3.12 Virtual meeting 25
3.13 Student initiatives announcement 2020 26
3.14 Faculty of mines student groups committee meeting 27
3.15 Student groups committee workshops 28
3.16 Leadership skills workshop 29
3.17 Promoter course – “Prevención de seguridad y salvamento minero” 30
3.18 SME young talent program 31
3.19 Visit and conference of Virginia Tech University students 32
3.20 3rd National Meeting of Mining students – Postponed 33

4. ANNEXED
4.1 FACULTY SPONSOR LETTER 34
It has been an awkward year, full of problems yet unsolved. During the whole 2019, the social protests in Colombia got bigger and harder against government management; those public issues affected directly the right operation of the universities and forced us to stop all academic and administrative activities inside the campus for months. When we finally found the light at the end of the tunnel, and we could reopen the campus and re-start the activities at the beginning of 2020, we got hit by the SARS-CoV-2 (Covid-19). The pandemic trouble is active and uncontrolled now in our country, that is the reason why we are now confined in our houses trying our best to do all the things we planned and return stronger in a few months with the blessing of God.

Even with all those problems, the SME Student chapter - Medellin has been doing everything to keep strong and united the group. In many ways, we have tried achieve our goals and now we are planning a lot of conferences and virtual workshops that will join the other face-to-face activities we have done. Every dream we had and every task we did, are all explained in the following report, as a show of our increasing desire to become better each year.

The SME student chapter - Medellin is honored to show the balance, all the activities, and general financial management of the chapter for the year 2019-2020.

Julian Chacon Lopez
SME Member and former treasurer
Current students’ representative
I have had the opportunity to be the president of the SME Student Chapter of the Universidad Nacional de Colombia – Sede Medellin, it has probably been one of the most fulfilling and rewarding experiences during my time at the university and in my training as Mining & Metallurgical Engineer. During my period as a president between 2019 and 2020, I tried with all my effort to do the activities and events which could strengthen the relationship between the SME Student Chapter and the students of the faculty. My objective always was to keep strong and active the next generation group of leaders for the next directive positions, and leave a very important legacy inside the freshman students, because they have always been the ones who have made grow the student chapter for all those years.

Into the things we were able to do during the current year of administrative activities, we have achieved a series of programmed activities but due to the current state of affairs other activities are yet to be done. It is important to highlight, as always, our participation in the Annual Conference and Expo 2020; this year we had the biggest delegation in our history who could attend to this important mining global event. We hope to keep this kind of participation each year at the Annual Meeting.
We had a series of conferences by graduated students and ex-members of the student chapter who taught us about their studies and current jobs; meetings with active members were done including the expected and relevant meeting with the freshman students and the new members. Meeting activities for fun as the picnic, sale of hot dogs, delivery of group official items and clothes, and give away of the gifts brought from the Annual Conference. This year, efforts were made to last over time, hopefully. We highlight the “SME Young Talent Program” created with the vision of integrating the people who are interested to be part of an investigation group, so we could contribute to the industry through science. A year marked by academic difficulties, but always in search of achieving our biggest goal: Integrate the students and get them close to their classmates and the mining industry.

During this period we got affected by many problems out of our control like the stop of activities in the fall semester 2019, the cancelation of the 2020-1 semester, and the pandemic that is affecting the world. Those events made us stop all face-to-face activities we have planned. When we finally solved the academic troubles, we got back to classrooms, but not for too long because of the pandemic; we had to stop classes again. On this occasion we decided to continue all the activities we have planned, but we had to do it in a virtual way.

Despite those difficulties, all of our arrangements were still on road and the encouragement to make them reality never left us. Virtualize the activities demands a lot of time and very good planning, but all of this is possible if we can count on a good teamwork. We left many activities waiting to be done with the University and we hope the next directorate will make it real. activities like “Segunda Semana Técnica: Minería Sostenible” (Second Technic Week: Sustainable Mining), the SME Young Talent Program, the conference “¡Esto es la minería!: De la mina a la ingeniería, y de la ingeniería la vida.” (This is mining! from mine to the engineering, and from engineering to the life.) And the “Codparents Plan”.

During this period 18 new students were enrolled in the student chapter buying the SME Membership, we hope those ones will renovate the next year and new members get enrolled too. We also received 22 new members.

Finally, I want to thank to my colleagues on the board of directors and my leaders teamwork, who stayed with me and helped me during this period. To our guide and faculty advisor. Oscar Jaime Restrepo Baena for his good humor and his willingness to support us in every activity, and to each member of the group for always participate in our activities.

Daniel Valencia Cruz
President of SME Student Chapter Medellín 2019 – 2020
Student of Mining and Metallurgy Engineering
Universidad Nacional de Colombia, sede Medellín
During the period between 2019 and 2020, as a treasurer of the SME Student Chapter Medellín, I have had the opportunity to take care, manage and invest the Student Chapter financial resources. I received the treasurer management from Henry Baena, with an economy balance of 1,882,000 COP (500-540 USD). This year has been different because of various difficulties we had with the university; however, we have been doing a giant effort inside the group so the economy of the Student Chapter could stay balanced and strong. We have potentiated the group with the enrolment of several groups of new students, in this way, we have had good earnings by the participation of the students in some activities as the hot dogs sale, for example.
We have used our money to cover some costs too, the paperwork, transport, etc. With the will to create fun and functional spaces where we could talk about the student chapter and our future and current projects. Today, the group’s money resources are almost at the same point in comparison with the last countable period. We hope to grow and earn more for the year to come and we expect mining companies to support us with the next activities for a better profit in the middle of 2021.

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Money Transaction (COP)</th>
<th>Balance (COP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/01/2019</td>
<td>Treasury funds</td>
<td>1’882,000</td>
<td>1’882,000</td>
</tr>
<tr>
<td>09/25/2019</td>
<td>Orica workshop, paperworks, and stuff</td>
<td>-19,000</td>
<td>1’863,000</td>
</tr>
<tr>
<td>09/27/2019</td>
<td>Integration party</td>
<td>60,000</td>
<td>1’923,000</td>
</tr>
<tr>
<td>10/15/2019</td>
<td>Picnic</td>
<td>-182,000</td>
<td>1’741,000</td>
</tr>
<tr>
<td>10/25/2019</td>
<td>Loan for Membership payment</td>
<td>508,950</td>
<td>1’246,950</td>
</tr>
<tr>
<td>11/15/2019</td>
<td>Hot Dogs Sale</td>
<td>60,000</td>
<td>1’206,950</td>
</tr>
<tr>
<td>11/20/2019</td>
<td>Office stuff, taxi carry</td>
<td>-6,000</td>
<td>1’200,950</td>
</tr>
<tr>
<td>12/15/2019</td>
<td>Membership payment</td>
<td>598,950</td>
<td>1’799,900</td>
</tr>
<tr>
<td>01/15/2020</td>
<td>Official clothes Payment (1/2)</td>
<td>-551,000</td>
<td>1’248,900</td>
</tr>
<tr>
<td>03/01/2020</td>
<td>Sandwich, hike and taxi Payment</td>
<td>-100,000</td>
<td>1’148,900</td>
</tr>
<tr>
<td>03/14/2020</td>
<td>Food festival (brownies) integration</td>
<td>-40,000</td>
<td>1’108,900</td>
</tr>
<tr>
<td>05/24/2020</td>
<td>Official clothes Payment (2/2)</td>
<td>725,000</td>
<td>1’833,900</td>
</tr>
</tbody>
</table>

Paubla Andrea Gallego López
Treasurer of SME Student Chapter Medellín 2019 – 2020
Mining and metallurgical engineering student
Universidad Nacional de Colombia, sede Medellín.
During the academic period, a lot of meetings were held to announce to the members all the activities we were going to develop, the already developed, and to try to motivate them to participate a lot in the group’s activities. The structure of the meetings did not change: First, the members of the board of directors made a welcome greeting with a short presentation of themselves; then, they asked new members to do the same. After this, the activities and projects were explained as well as the new ideas or proposals for the short, medium and long term. Then, round of opinions were open for the members where they could express their ideas about the way activities may be done. Activity leaders were chosen to be the head of the group and to always be aware of the program and teamwork development.
Finally, all the members started a conversation about themselves and their academic interests so the seniors and junior students, helped the freshmen and sophomore ones with their questions, tasks, subjects and exams.

At the beginning of the academic period a series of meetings were proposed twice a month, because fifteen days seemed to be enough to advance in the projects. But, with the troubles we had in the 2019-2 period, we decided to do a meeting per month, and only if the situation was appropriate.

THE MEETINGS DONE DURING THE ACADEMIC PERIOD WERE:

**Primera Reunión SME Student Chapter y Picnic de Integración**

**Date**
09/21/2019 - Hour: 01:00 pm

**Place**
Bloque M6, Facultad de Minas - Finca “Las Mercedes”

**Number of Attendees**
37 people

**Topic**
Semester welcome to the Student chapter members

**Segunda Reunión SME Student Chapter**

**Date**
10/15/2019 - Hour: 04:00 pm

**Place**
Bloque M3, Facultad de Minas

**Number of Attendees**
23 people

**Topic**
Teaching Kids Project re-start and activities exposition
**Date**
11/19/2019 - Hour: 12:00 pm

**Place**
Bloque M3, Facultad de Minas

**Number of Attendees**
17 people

**Topic**
Official clothes design proposal and programmed activities socialization

---

**Date**
02/03/2020 - Hour: 01:00 pm

**Place**
Bloque M3, Facultad de Minas

**Number of Attendees**
18 people

**Topic**
Welcome to group members, delivery of clothes and official stuff and budget for Annual Conference trip
Date  
03/14/2020 - Hour: 12:00 pm  
Place  
Bloque M6, Facultad de Minas - Finca “Las Mercedes”  
Number of Attendees  
23 people  
Topic  
Annual conference experiences of the members who were in Phoenix; New groups conformation; 3rd Mining Students National Meeting

Date  
05/01/2020 - Hour: 02:00 pm  
Place  
Home, sweet home – Google Meet  
Number of Attendees  
26 people  
Topic  
Activities to do during quarantine; 3rd Mining Students National Meeting, postponement; 1st Mining Students National Virtual Meeting, proposition

Inside the student chapter, there are different positions and there are people who have different functions. In addition to this, there is a four-people group with the mission of being the directive head of the group and the legal and visible face to the University and the organization inside and outside the country. Those people are: The President, Vice-president, Treasurer and Secretary of the group.
Board of directors
2019

Secretary
Luis Alejandro Rivas Mosquera

Treasurer
Paubla Andrea Gallego López

President
Daniel Valencia Cruz

Vice-president
Juan Pablo Carmona Pérez
The rest of the SME Student Chapter Members are:

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Academic Year</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valencia Cruz, Daniel</td>
<td><a href="mailto:davalerac@unal.edu.co">davalerac@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Carmona Pérez, Juan Pablo</td>
<td><a href="mailto:jpcarmona@unal.edu.co">jpcarmona@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Gallego López, Paulina Andrea</td>
<td><a href="mailto:pgallego@unal.edu.co">pgallego@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Rivas Mosquera, Luis Alejandro</td>
<td><a href="mailto:lruivismo@unal.edu.co">lruivismo@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Restrepo González, Natalia</td>
<td><a href="mailto:mrestrepo@unal.edu.co">mrestrepo@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Meza Tabares, Thomas</td>
<td><a href="mailto:tamza@unal.edu.co">tamza@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Rodríguez Celi, Daniela</td>
<td><a href="mailto:dordriguezceli@unal.edu.co">dordriguezceli@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Coronado Majul, Sara Daniela</td>
<td><a href="mailto:sdcoronadom@unal.edu.co">sdcoronadom@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Palacios Morales, Santiago</td>
<td><a href="mailto:spalacios@unal.edu.co">spalacios@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Matto Franco, Valentino</td>
<td><a href="mailto:vmatto@unal.edu.co">vmatto@unal.edu.co</a></td>
<td>Senior</td>
<td>Geological Engineering</td>
</tr>
<tr>
<td>Sierra Vargas, Paula Fernanda</td>
<td><a href="mailto:psierrav@unal.edu.co">psierrav@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Pérez Duque, Santiago</td>
<td><a href="mailto:sperezduque@unal.edu.co">sperezduque@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Salgado Cabeza, Manuel Zacarias</td>
<td><a href="mailto:msalgadoc@unal.edu.co">msalgadoc@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Cortes Palacios, Esteban</td>
<td><a href="mailto:ecortesp@unal.edu.co">ecortesp@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Amaya Roa, Laura</td>
<td><a href="mailto:lamayor@unal.edu.co">lamayor@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Wagner Osorio, Kennet</td>
<td><a href="mailto:kwagneros@unal.edu.co">kwagneros@unal.edu.co</a></td>
<td>Graduated</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Patiño Parra, Miguel Alejandro</td>
<td>mpati@<a href="mailto:p@unal.edu.co">p@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Ortega Barrios, Roberto</td>
<td><a href="mailto:roortegabar@unal.edu.co">roortegabar@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Yepes Aruloa, Maria Alexandra</td>
<td>myepes@un rider.edu.co</td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Salazar Córdenas, Juan José</td>
<td><a href="mailto:jsalazarc@unal.edu.co">jsalazarc@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Jurado Apointe, Juan Esteban</td>
<td><a href="mailto:jurejuroapox@unal.edu.co">jurejuroapox@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>García Villada, José Miguel</td>
<td><a href="mailto:joggarcivi@unal.edu.co">joggarcivi@unal.edu.co</a></td>
<td>Senior</td>
<td>Geological Engineering</td>
</tr>
<tr>
<td>Gil Hoyos, Andres Camilo</td>
<td><a href="mailto:acgilho@unal.edu.co">acgilho@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>López Jaramillo, Paula Andrea</td>
<td><a href="mailto:palezap@unal.edu.co">palezap@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Ramírez, Sebastian</td>
<td><a href="mailto:seramirez@unal.edu.co">seramirez@unal.edu.co</a></td>
<td>Senior</td>
<td>Geological Engineering</td>
</tr>
<tr>
<td>Beníto Aroya, Doris Adriana</td>
<td><a href="mailto:dbenito@unal.edu.co">dbenito@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Bermón Riscoschio, Edwin Santiago</td>
<td><a href="mailto:ebermosy@unal.edu.co">ebermosy@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Río Vallejo, Daniel Alejandro</td>
<td><a href="mailto:drino@unal.edu.co">drino@unal.edu.co</a></td>
<td>Senior</td>
<td>Geological Engineering</td>
</tr>
<tr>
<td>Sánchez Posada, María Camila</td>
<td><a href="mailto:msanchezp@unal.edu.co">msanchezp@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>León Duque, Alexandra</td>
<td><a href="mailto:aleond@unal.edu.co">aleond@unal.edu.co</a></td>
<td>Junior</td>
<td>Geological Engineering</td>
</tr>
<tr>
<td>Parra Valencia, Mauricio</td>
<td><a href="mailto:maparrav@unal.edu.co">maparrav@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Correa Duque, Fabio André</td>
<td><a href="mailto:faccorrea@unal.edu.co">faccorrea@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Toro Chavarria, Jhonny Sneider</td>
<td><a href="mailto:jhtoro@unal.edu.co">jhtoro@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Obiero Rubian, Nicolás Enrique</td>
<td><a href="mailto:noiberor@unal.edu.co">noiberor@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>García Zambrano, Mauricio Alejandro</td>
<td><a href="mailto:magarciaza@unal.edu.co">magarciaza@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Sierra Candela, Geraldine Johanna</td>
<td><a href="mailto:gisieracan@unal.edu.co">gisieracan@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Quintana Jaramillo, David</td>
<td><a href="mailto:dqquint@unal.edu.co">dqquint@unal.edu.co</a></td>
<td>Senior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>López Álvarez, Juan Diego</td>
<td><a href="mailto:jlopezalv@unal.edu.co">jlopezalv@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Ortiz Vargas, Kevin Manuel</td>
<td><a href="mailto:kmoritzva@unal.edu.co">kmoritzva@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Morales Gómez, Lesly Salsy</td>
<td><a href="mailto:lsmorales@unal.edu.co">lsmorales@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
<tr>
<td>Chacon iñiguez, Julian</td>
<td><a href="mailto:jchaconi@unal.edu.co">jchaconi@unal.edu.co</a></td>
<td>Junior</td>
<td>Mining and Metallurgy Engineering</td>
</tr>
</tbody>
</table>

SME - UNALMED

Luis Alejandro Rivas Mosquera
Secretary of SME Student Chapter Medellín 2019 – 2020
Mining and Metallurgy Engineering
Universidad Nacional de Colombia, sede Medellín
This was the first meeting of the current board of directors. The idea of this meeting was to invite new students to the student chapter and advertise the plans and projects for the next period; we did it in a quiet environment with some pizza to share with each participant. This activity was very well received by first semester students interested in the chapter. The meeting began with the presentation of the new board of directors and a few words from each of its members. Then each student introduced themselves, discussed how they knew about the chapter, and what expectations they had about it.

First the freshmen students and those who were attending a chapter meeting for the first time, talked about what the chapter meant for each of them; then, the students with more experience in the chapter spoke about their experiences, and the benefits that this chapter had generated throughout their careers. Also, the committee’s conformation was discussed and new students were invited to join those committees. Then, the pizza was distributed, new students could talk in a more personal way to students with more experience. To end the meeting, items donated by students who attended the SME Annual Conference & Expo 2019 in Denver, Colorado were raffled. At the end of the raffle, the meeting was concluded.

Date: 09/21/2019
Place: Bloque M6, “Finca las Mercedes” - Campus Robledo - Universidad Nacional de Colombia, Sede Medellin.
3.2 WORKSHOP ORICA “EFFICIENT BLASTING AND SAFE USE OF EXPLOSIVES”

ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS

Organizations: SME Student Chapter Medellin, National University of Colombia & Orica Colombia
Speaker: Ing. Andres Camilo Mesa
Date: 09/24-25/2019
Place: Alejandro López auditorium, School of Mines

Through this Workshop offered by the Orica Colombia Company, the university’s community especially the students from mining engineering and chemical engineering, had the opportunity to obtain new knowledge and strengthen those already obtained in the course of their careers, on topics such as explosives, blasting and its new technologies. It is important to mention that Orica is a company dedicated to the management and manufacture of explosives for mining; at the same time, it offers excellent learning opportunities as is the case of one of the engineers who presented this workshop. He is graduated from our university and was in the graduate program offered by Orica.

The workshop was divided into two days and 3 modules, each of these modules focused on a topic: the first of them was about the knowledge of explosives; their history, composition, preparation and the different types that exist. Also, they explained about the graduate program, how to apply to it, and its many benefits.
In the second module, geotechnics was studied in more depth; was discussed the topic of the application of explosives in rock blasting, explaining the requirements that blasting must comply with according to the type of rock and the characteristics of the rock mass.

Finally, the third module considered the new technologies that have been applied in blasting design today, technologies that have brought great benefits in mining activities.
3.3 INTRODUCTION FOR FRESHMAN STUDENTS

ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS

Date: 02/26/2020
Place: Classroom 110/43 Campus “El Volador” - National University of Colombia- Medellin.

This is an activity that is done every semester, it consists of going to the class “Introduction to Mining and Metallurgy Engineering” and give an induction to first semester students about what the SME chapter is, its objectives in the university and the activities we do. The purpose is to encourage first-semester classmates to become a part of the group and learn about the benefits they could get in their time at the university and their trainings as mining and metallurgical engineers.

The talk consists of a description of what is the SME at the international level, the history of the chapter and all the activities that the group has done for so many years, ending with the registration of students interested in being members of the chapter.
3.4 URBAN ART FESTIVAL - “BIENESTAR UNIVERSITARIO UNALMED”

ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS

Date: 11/15/2019
Place: “Bloque M10” School of mines

The University through “bienestar universitario” carried out the Urban Art Festival activity in which some student chapters of the University participate, including our attendance. The principal main of the event was the integration of the university community through the delivery of an award in an art contest, the presentation of dance groups, and the sale of food. Through this event, the student groups get involved with the community and they had the opportunity to share a funny moment. Our chapter, SME, participated in this event with the sale of hot dogs, and with this we also collected funds for subsequent activities.
3.5 WORKSHOP “ORGANIZACIÓN Y LOGISTICA DE EVENTOS”

ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS

**Organizations:** Communications office - Facultad de minas

**Date:** 02/14/2019

**Place:** Bloque M6 facultad de minas, Universidad Nacional de Colombia sede Medellín

This event was carried out by the communications office of the Facultad de Minas to teach us the correct way to manage, organize and execute projects within the university according to its rules and protocols. In this workshop we share with the other student chapters and nurseries of the faculty, expanding our social ties and seeking to cooperate in future projects.

We also learned communication, design and dissemination skills to improve the image of our chapter in the social, academic, labor, political and cultural spheres.
The SME Student Chapter participated in the Student Groups Fair where each group had a place with a stand. We presented some elements with the thematic of our group like photos, posters, books, souvenirs, mineral samples, etc. To people interested in our stand and then, some student members explained to them the minerals and remaining items. The presentation was done in this way: First, we talked a little bit about the SME, the international organization and the history of the Student Chapter at the University. Then, we presented the different projects and ideas, done by the Student Chapter inside and outside the University. Finally, we tried to talk about mining and its importance in our lives, because most the people still have a bad perception of the mining process. When the presentation was concluded, we raffle some of the souvenirs with questions about the presented topic and then we invited the people to join the Student Chapter by gathering their contact information.

3.6 STUDENT GROUPS FAIR – “BIENESTAR UNALMED”

**ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS**

**Date:** 02/14/2020  
**Place:** Bloque 44, Edificio Ágora - Universidad Nacional de Colombia

![Image of a矿业活动的图片](image-url)
3.7. CONFERENCE “MASTER IN GEOTECHNICS AND GRADUATE OPPORTUNITIES IN NEW MEXICO TECH INSTITUTE”

ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS

Organizations: SME Student Chapter Medellín, National University of Colombia & New Mexico Tech Institute Speaker: Ing. Catalina Vanegas
Date: 01/27/2020
Place: Alejandro López auditorium, Facultad de Minas

Through this conference, the engineer Catalina Vanegas, a graduate student from our faculty, introduced us to her master’s studies which are focused on geotechnics, one of the most important areas that mining engineering has: her master is based on the concept of block submerged mining in a specific case study. In addition to this, she shared her experience as a student in another country, the postgraduate opportunities that we could have through the university and the institute New Mexico Tech, her experiences and learning during her time at the Institute. Finally, some gifts sent by the institute were raffled and a snack was given to all the attendees.
This meeting was done at the beginning of the academic period to deliver some of the official t-shirts of the Student Chapter and get some fundraising for the next activities and projects. First, we had the presentation of the new members from the majors of Geological engineering and Mining and Metallurgy engineering who have been interested to join us.

Then, we spoke about the programmed projects during the semester: the 3rd Mining Students National Meeting, the budget to attend the annual conference and, the proposal of some members to more interactive meetings like picnics or movie nights.

After that, the official clothes were delivered to the students; it was a clear gray t-shirt with the name and logo of the SME Student Chapter, the university, the school and finally, the major which could be Geological engineering or Mining engineering. Then, we went to the M5 building and to the Pedro Nel Gomez maximum auditorium where the official photos were taken, with the members wearing the official t-shirt.
This year we had the biggest delegation in our history who attended this important mining global event. We participated in the Move Mining Competition, which was won by this student chapter to years ago and has participated in the finals since then, and the student poster contest, in which we earned top places.

Move Mining Competition – MIG Project

We had the opportunity to participate again with a good project with a real impact on mining and society. It is called the MIC Project. This initiative, which its acronym in Spanish means “Mujeres, Ingeniería y Geociencia” (Women, Engineering and Geoscience), was born in 2018 with the objective of making visible the role of women in mining, and show those testimonies to the University community and those who want to join the experience.

The method was based on giving to the attendees a conference full of life experiences and motivation specially focused on young women who can see those testimonies as an example to improve themselves. We are convinced that the 21st-century women have all the capacity to be a leader achieving a progressive social transformation.

The project was on the top five group of the final and despite not being among the three finalists, it was a wonderful experience with a lot of knowledge taken from the entire Move Mining competition.
Poster Contest

This year three members of the SME Student Chapter Medellín participated in the Mineral Processing Division student poster contest, Laura Amaya, Nicolas Oviedo and Ernesto Maldonado; this last one winning the third place.

Furthermore, for us as a student chapter it is important to highlight that several students who belonged to the SME Student chapter of the National University of Colombia have been able to participate in the different categories of the student poster contest such as the Environmental and graduate poster contest.
This day we wanted to do a sporty and healthy activity away from the noise and stress of the city. Our objective was to change the classroom for the environment and do something different from what the academy offers. We were in a forest reserve surrounded by trees, wildlife and two wonderful waterfalls. We had great participation from the chapter members who worked hard to make this journey through the mountains possible.

Our guide was a member of the chapter and in his free time he enjoys those activities; with his guidance, we shared a magnificent experience climbing in the middle of the forest. We enjoyed this day with the soft breeze of the water and with the company of the members of the SME Student Chapter.
In this meeting, new students were integrated into the chapter, most of them from the first semester of Mining and Metallurgical engineering. Additionally, we wanted to share with new and old members of the chapter the experience of attending the 2020 Annual Conference & Expo by those students who participated in it. We did a raffle of mining souvenirs brought from the annual conference. A snack was shared and we discussed the future activities that will be carried out. Unfortunately, it was the last face-to-face meeting before starting COVID-19 pandemic.
Due to the emergency of the current pandemic by COVID-19, the mandatory quarantine that was established throughout the country, difficulted the development of the activities proposed for the chapter, including the periodic meetings in-campus. In concordance of that, a virtual meeting was prepared via Google Meet, with the attendance of 26 people. In this meeting some activities that will be developed virtually were discussed, and it was a space of interaction between the members of the chapter, and an opportunity to welcome the new members.
3.13 STUDENT INITIATIVES ANNOUNCEMENT 2020

ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS

Organization: Bienestar Universitario - Facultad de Minas.

This announcement for projects, is carried out by “Bienestar universitario” and its objective is to provide financial support to initiatives presented individually by the student groups of the school of Mines. From the SME student chapter, we presented a great academic and social project that consists of making two presentations: The first one with a topic about the importance of mining in our lives and the professional careers of the school of Mines, and the other one, with a photographic exhibition of successful cases of mine closures and social work done by mining companies. The proposal is currently in the verification process.
At the beginning of the year, the area of Bienestar Universitario decided to get together all the student groups of the school of Mines and create with the participation of all of them the ‘Committee of Student Groups of the Faculty of Mines’, this with the purpose of having all the groups united and in constant communication to provide academic and social support.

They have already done several meetings that defined the main purpose of the committee that is meant to unite all students of the faculty in activities of collective academic and social benefit. They have also created statutes for the proper functioning of the committee.
There are a series of workshops that have been organized by the committee of student groups. Those workshops were made with topics proposed by the faculty and in concordance with the university's sustainability agenda, leadership, communication, project management, finance and management of resources, advertising among others.

Most of those workshops have been organized by Bienestar Universitario and they are the ones who dictate each one. But, there are going to be workshops where each student group shows their strength and how they can help other groups.
It was a workshop done by Bienestar Universitario, in order to present and publicize all the student groups the University has. The main objective of the workshop was to manage leadership in groups, good communication and project management. The workshop was based basically on games and a lot of fun integration with the other student groups.
3.17 PROMOTER COURSE – “PREVENCIÓN DE SEGURIDAD Y SALVAMENTO MINERO”

ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS

Organization: SME Student Chapter Medellin & Agencia Nacional de Minería (ANM)

This is a very important course for the mining industry that we consider must be a mandatory class for all the students but, it is a great void within the mining engineering coursework offering. Due to this, the SME Student Chapter has been looking for months the way to offer this course for Student Chapter members with the help of the Agencia Nacional de Minería (National Mining Agency), especially focused on senior students. Unfortunately, this course was programmed for May 26th and 27th, and it couldn’t be done. This event must be done face-to-face, so we hope we can do it when the pandemic issue ends.
This project has been done with the Oscar Jaime Restrepo Baena teacher’s support, with the objective of integrating an investigative program into the Student Chapter. Currently, the program is enrolled with the university and now we are on the “projects formulation” stage. In addition to this, we are invited to do a presentation in the 8th Institutional meeting and 7th local meeting of young talent programs organized by Universidad Católica Luis Amigo.
3.19 VISIT AND CONFERENCE OF VIRGINIA TECH UNIVERSITY STUDENTS

ACTIVITIES INSIDE AND OUTSIDE THE CAMPUS

**Date:** 01/24/2020  
**Place:** Alejandro Lopez Auditorium, M3 building - Facultad de Minas

From Virginia Tech University, a group of students belonging to the mining and minerals engineering department, in the company of Nino Ripepi, an expert teacher of security and work health, visited the faculty location. They walked around the faculty in the company of our tutor, Oscar Jaime Restrepo Baena and some undergraduate and graduate students. Two conferences were held by the visitors; the first one, was directed by Nino Ripepi and its main topic was the mining security in the United States and how those strategies could be done in Colombia.

The second one, was directed by the Virginia Tech students and it was a relaxed talk about the mining sector in US, the focus of their university, their academic practices, courses, competitions, the events they have participated, the Burkhart Mining Society Student Chapter and the good opportunities to study at their campus, because of the agreement between both universities.
The Mining Students National Meeting, is an event done for the three most important mining schools in Colombia. The last two meetings were held on the campus of the UPTC and UPFS respectively. So this year was our turn to receive them in our city. Because of the pandemic troubles and the mandatory quarantine, it became an impossible event. Due to that, we created a strategy to make it possible through the virtual tools and we are now planning a three days virtual meeting based on the mutual faculties support.

From June 10th to 12th, each faculty will have an entire day of conferences and workshops at their charge with the topic of “Applied technologies in mining” with teachers and academics from each university. We hope to do the face-to-face meeting in our faculty in May of 2021.
Medellín, May 21st 2020

To
Society of Mining, Metallurgy and Exploration (SME)
SME receptions info

As a tutor of the Student Chapter of SME at Universidad Nacional de Colombia, I am writing to show my support to the Annual Report of the SME Student Chapter – Medellín / Universidad Nacional de Colombia of the Society for Mining, Metallurgy, and Exploration for the 2019 – 2020. I have read and review all the information about the activities done during the current period, and I am glad to say that I have attest all.

The current group of students at the head of the student chapter, have demonstrated they have a great desire to grow themselves and do all they propose even with the local politics troubles and global pandemic issues. I fully believe that this report is accurate and correct. I will be ready to give any information and support.

Best regards,

Oscar Jaime Restrepo Baena
Mining and Metallurgy Engineering
M.Sc. Ph.D. - SME/TMS/SDMP
Professor
Minerals and Materials Department
School of Mines
Universidad Nacional de Colombia
Teléfono 57-4-4303290
e-mail: ojrestre@unal.edu.co

SME - UNALMED

4. ANNEXED

4.1 FACULTY SPONSOR
Thank you.

Direction
Daniel Valencia Cruz

Drafting
SME Student Chapter Members

Production and Visual Design
Fabio Alejandro Espinosa González

Translation
Paula Andrea López Jaramillo
& Julián Chacón López

Grammar Check
Jose Raúl Velásquez Vásquez

Block M5 School of Mines