SME Student Chapter UNI
National University of Engineering
Universidad Nacional de Ingeniería

Edited, Designed, Written and Translated by

Alex Falcón
Alexis Mancilla
Anderson Capcha
Angello Rivera
Jeseson Tapia
Juan Abregú
Juan Tarazona
Julio Samamé
Mirna Cachay
Nicolás Díaz
Roberth Bulnes
Sammy Chiroque

Lima, May 2019

SME Student Chapter UNI
Faculty of Geological, Mining and Metallurgical Engineering
Facultad de Ingeniería Geológica, Minera y Metalúrgica
FIGMM – UNI
Lima, Perú
sme@uni.edu.pe
INDEX

1 INSTITUCIONAL PRESENTATION ................................................................. 3
   1.1 WHO ARE WE? .................................................................................. 3
   1.2 OUR VALUES .................................................................................... 3
   1.3 VISION ............................................................................................. 3
   1.4 MISSION ............................................................................................ 3
   1.5 STRATEGIC OBJECTIVES ................................................................. 4
   1.6 GOALS 2019 .................................................................................... 4
   1.7 ACKNOWLEDGMENT ..................................................................... 4
   1.8 PRESIDENT REPORT ...................................................................... 5
   1.9 VICE PRESIDENT REPORT ............................................................ 6
   1.10 SECRETARY REPORT .................................................................... 7
   1.11 TREASURER REPORT ................................................................... 8
   1.12 STUDENT CHAPTER’S OFFICERS AND ASESSORS .................... 10
   1.13 PRESENTATION OF NEW CHART POSITION: EXTERNAL RELATIONSHIPS SECRETARY .................................................. 11
   1.14 STUDENT CHAPTER’S MEMBERS .............................................. 12
      1.14.1 GRADUATED MEMBERS .......................................................... 12
      1.14.2 MEMBERS ............................................................................... 12
      1.14.3 NEW MEMBERS .................................................................... 13

2 STUDENT CHAPTER’S MEETINGS .............................................................. 14
   2.1 YEAR 2018 ....................................................................................... 14
      2.1.1 First General Meeting of the SME UNI (November 7, 2018) ........................................................................ 14
      2.1.2 Second General Meeting of the SME UNI (November 21, 2018) ............................................................. 14
      2.1.3 Third General Meeting of the SME UNI (December 5, 2018) .............................................................. 14
      2.1.4 First Directive Meeting of the SME UNI (December 12, 2018) .......................................................... 15
   2.2 YEAR 2019 ....................................................................................... 16
      2.2.1 First Directive Meeting of the SME UNI (February 5, 2019) ............................................................. 16
      2.2.2 Second Directive Meeting of the SME UNI (March 14, 2019) .......................................................... 16
      2.2.3 First General Meeting of the SME UNI (April 03, 2019) ............................................................. 16

3 STUDENT CHAPTER’S ACTIVITIES .............................................................. 17
   3.1 MINING SOFTWARE WORKSHOP .................................................... 17
   3.2 “LONG TERM MINE PLANNING” .................................................... 18
   3.3 CHRISTMAS CHOCOLATE FIGMM .................................................. 20
   3.4 MEETING WITH OUR DEAN AND MRS. MARISA DE AMICO ............ 21
   3.5 “WELCOME TO THE SME STUDENT CHAPTER UNI” .................... 22
   3.6 “INTRODUCTORY MINING ENGINEERING” ................................ 23
   3.7 “WELCOME AT THE UNI” ............................................................. 24
   3.8 “PRE-PROFESSIONAL PRACTICES, LEARNING AND EXPERIENCES” .................................................. 25
   3.9 “INTRODUCTORY MINING ENGINEERING” ................................ 26

4 STUDENT MEMBERS’ PARTICIPATION ......................................................... 27
   4.1 "THE FAULT IN THE SLOPE SUPERIOR OF MANEFAY - BINGHAM CANYON" .......................................................... 27
   4.2 “BUSINESS SOCIAL INNOVATION IN THE MINING SECTOR” .......................................................... 28
   4.3 XIX PERUVIAN GEOLOGY CONGRESS ......................................... 29
   4.4 CONEIMIN 2018 ............................................................................... 30
   4.5 SME ANNUAL CONFERENCE 2019 ............................................... 32
   4.6 PRO EXPL0 2019 ............................................................................. 33

ANEXO 1: MINUTES OF THE GENERAL MEETING OF THE SME UNI N°001-2019 .................................................. 34
1 INSTITUCIONAL PRESENTATION

1.1 WHO ARE WE?

We are a Student Chapter conformed by the students of the Faculty of Geological, Mining and Metallurgical Engineering of the National University of Engineering (UNI), associated to the Society for Mining, Metallurgic and Exploration (SME) and committed to the development of the mining industry national.

1.2 OUR VALUES

Passion. Always deliver more than what is expected of you (LP)

Integrity. Knowledge without integrity is dangerous and terrible (SJ)

Leadership. Leadership is liberate the potential of people to make them better (BB)

Teamwork. Together we achieved great goals

Socio Ambiental Responsibility. The price of greatness is responsibility (WC)

Continuous Improvement. After climbing a very high mountain, we discovered that there are many other mountains to climb (NM)

1.3 VISION

“By 2021, be the leading student chapter in mine planning, scientific research and development, focused on the needs of the mining industry”

1.4 MISSION

“To maximize UNI talent, under an integral approach, and to promote mining research, responding to the needs of companies and society”
1.5 STRATEGIC OBJECTIVES

1. Strengthen the technical knowledge of students
2. Promote scientific research in students
3. Enhance leadership skills and integration among members
4. Student representation and prestige to the University
5. Disseminate responsible mining within Peruvian society

1.6 GOALS 2019

1. Outstanding participation in concurs of Planning at PERUMIN
2. Outstanding participation in competition of Planning at CONEIMIN
3. Carry out one research project
4. Participation of at least two students in the AC SME 2020

1.7 ACKNOWLEDGMENT

To...

... MSc. Eng. Henry Brañes, great mentor and professor
... Mrs. Marisa Moane de Amico, great counselor and friend
... MSc. Eng. Jose Corimanya and Eng. Augusto Tévez, for your trust and support
... Bach. Cristhian Quiroz, Erick Hinostroza and Alfredo Martinez, great friends
... Engineers, Faculty Personal and Students, which made all our activities possible
1.8 PRESIDENT REPORT

The 21st century has been characterized by the exponential development of science and technology; and mining, an ancestral activity practiced since the beginning of man, cannot be alien to it. Currently, the profile of the mining engineer not only takes into account the technical capacity, but also the relevance of other aspects such as: communication and leadership skills, awareness of socio-environmental responsibility, awareness of safety, innovation and adaptability to these new technologies that are being developed. All this, well synchronized, makes a mining operation safe, efficient and profitable.

Students of the SME Student Chapter UNI, aware of this reality, have been developing their activities for 4 years, in order to contribute to the professional and personal development of future engineers who will enter the national or international mining industry.

I feel very honored by the trust given by my colleagues to lead this great team in the realization of our objectives and goals. Thanks to the hard work of these years, the SME UNI has positioned itself within the Peruvian mining academic field as a reference group, thanks to the achievements obtained by its members and the activities carried out during these years.

This year we carried out various activities and could involve many students from our university of different years, which is manifested in the number of new members we have. It is a new challenge to be able to meet the expectations of these students, but with hard work, vision and commitment will be achieved.

It is a pride to feel that the vision we have of a solid, competent and committed group with the development of the national mining industry is becoming a reality.

Angello Rivera Calle
1.9 VICE PRESIDENT REPORT

The mining industry in Peru has developed rapidly in recent years, facing many challenges, and SME UNI is firmly committed to solving them.

In accordance with this, we have developed various activities aimed to involve more students in our organization, which were successful and was reflected in the great reception of the call for new members, which took place at the end of 2018.

As a team, the SME board decided to update the mission and vision of the chapter, specifying our values and setting specific goals for 2019. For this period, we are committed to strengthening scientific knowledge and research capacity in our associates, as this represents one of the main needs of the mining sector in our country. In addition, we decided to work focused on the development of leadership and competitiveness, which is why we work hand in hand with associate professors to develop internal skills to select the teams that represent us in national competitions such as Perumin and Coneimin, which are the most important in the mining sector.

One of the challenges we still face is the addition of more members of geological and metallurgical engineering to our chapter. We will continue working as a team to face this and other challenges, we are convinced that our work will contribute to improve the skills of our Associates, who will contribute to his personal development, to the development of the university, to mining and to our society.

Mirna Cachay Guerrero
1.10 SECRETARY REPORT

It is a pleasure for me, to be able to be part of this important group, to place their trust on me to entrust the secretary of my chapter which has assumed with honor and pride from the beginning to commit ourselves every day to improve the management of our chapter and with demonstrating that we are capable of achieving the goals we set for ourselves. I would like thank each of the members and people who place their trust in me and renew my commitment to meet high expectations.

Among the main tasks entrusted to me were to make a detailed history of the various meetings, events, discussions and activities that have been carried out during my management. In the same way, it is part of my job to be able to contribute with the necessary support in the tasks of logistics and organization of events by our chapter.

We have carried out a large number and numerous meetings in order to make observations in our management and to improve them if necessary. It our priority of all of us that all the goals of our chapter are fulfilled, continuing the work of the previous efforts and contributing new ideas in the welfare of all of us.

Similarly, we can make academic activities that contribute to the academic development of each student of our faculty, taking into account a great reception so we will not only continue to encourage workshops, talks, conferences and activities but also expand the fields of interest to grow together.

As a result of our work, it can be observed with greater precision in the number of members of our chapter as well as with the active participation of different professionals who have accepted to train us in various topics related to our career.

I am convinced that our management continues with the efforts and dedication to obtain good and better results, as well as the commitment to be better students and excellent professionals.
1.11 TREASURER REPORT

It is an honor to belong to this chapter, which has allowed me to develop my administrative skills as well as my soft skills by interacting with my working group.

My functions in this group are to manage all the monetary flows that is carried out (sporting events, academic activities as well as economic); also keep a detailed record of it. This year we have been doing activities as a gift of baskets to the workers of our house of studies, banner preparations as part of our academic development; all this was part of our expenses, we have received donations from our own members, we also carry out activities with the goal of generating income.

Working in this group, I consider it a great opportunity, because I am developing a lot of my knowledge, both from my colleagues (about on mine experiences), as well as reading from the library provided by the SME. Therefore, the experience you get from this group, I think it can help many partners to develop professionally and be prepared before the mining industry.
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<tr>
<td>President</td>
<td>Rivera Calle, Angello</td>
<td>Mines</td>
<td><a href="mailto:angellorc98@gmail.com">angellorc98@gmail.com</a></td>
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<tr>
<td>Vice President</td>
<td>Cachay Guerrero, Mirna</td>
<td>Mines</td>
<td><a href="mailto:mirnacachay@gmail.com">mirnacachay@gmail.com</a></td>
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<tr>
<td>General Secretary</td>
<td>Mancilla Rosales, Alexis</td>
<td>Mines</td>
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<tr>
<td>Treasurer</td>
<td>Bulnes Castro, Robert</td>
<td>Mines</td>
<td><a href="mailto:rolbex_al2028@hotmail.com">rolbex_al2028@hotmail.com</a></td>
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<tr>
<td>Operations Secretary</td>
<td>Capcha Llacua, Anderson</td>
<td>Mines</td>
<td><a href="mailto:anderson.capcha.ll@uni.pe">anderson.capcha.ll@uni.pe</a></td>
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<tr>
<td>Operations Sub – Secretary</td>
<td>Falcón Ascona, Alex</td>
<td>Mines</td>
<td><a href="mailto:alex.falcon.a@uni.pe">alex.falcon.a@uni.pe</a></td>
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<tr>
<td>Sec. of Academic Development</td>
<td>Samamé, Julio</td>
<td>Mines</td>
<td><a href="mailto:julioherlessmx@gmail.com">julioherlessmx@gmail.com</a></td>
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<tr>
<td>External Relationships Secretary</td>
<td>Tarazona Alfaró, Juan</td>
<td>Mines</td>
<td><a href="mailto:ditashiro2010@gmail.com">ditashiro2010@gmail.com</a></td>
</tr>
<tr>
<td>Marketing Secretary</td>
<td>Chiroque Yovera, Sammy</td>
<td>Mines</td>
<td><a href="mailto:schiroquey@uni.pe">schiroquey@uni.pe</a></td>
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<tr>
<td>Metallurgy Division</td>
<td>Tapia Pérez, Jeaeson</td>
<td>Metallurgy</td>
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<tr>
<td>Geology Division</td>
<td>Díaz Ramos, Nicolás</td>
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<tr>
<td>MEC Division</td>
<td>Abregú Tuesta, Juan</td>
<td>Mines</td>
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### Faculty Sponsor

<table>
<thead>
<tr>
<th>Sponsor Name</th>
<th>M.Sc. Ing. Jose Corimanya</th>
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### Local Section Counselor

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<th>Name</th>
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1.13 PRESENTATION OF NEW CHART POSITION: External Relationships Secretary

“My name is Juan Diego Tarazona Alfaro and this year I assumed the new secretary of foreign relations in my SME UNI Chapter, which means an advance in my academic development. It is my commitment of pride and work to be able to accomplish the functions entrusted. This secretary was created with the aim of establishing good communication and creating bonds of friendship and work between the chapters of Peru and abroad.

As a short-term objective, we have projected ourselves as an incentive for the creation of this secretary in the other chapters. This position has been granted to me based on the experience obtained in The Annual Conference of the SME which was enriched my knowledge and expanded in the relations with the other chapters not only in my country but also in South America and the United States.

The main functions that will be developed in my secretary are:

1. Establish and maintain direct communication with the different chapters of Peru and abroad and the end of the data on the different activities carried out in each chapter.
2. Coordinate together with the chapters of Peru and abroad about all the activities that are carried out.
3. Encourage meetings at the level of Peru and South America through videoconferences, which will create a stronger and more direct link in the various coordination.
4. Make decisions in the different meetings with prior coordination of our respective chapters.
5. Support in the work of information and coordination of the different secretaries of our chapters.

This year we have planned to meet the objectives in the short, medium and long term, in which this secretary is directly involved, being thus of vital importance the participation of all the other chapters”.

Juan Tarazona Alfaro
1.14 STUDENT CHAPTER’S MEMBERS

1.14.1 GRADUATED MEMBERS

<table>
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### NEW MEMBERS

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2. STUDENT CHAPTER’S MEETINGS

2.1 Year 2018

2.1.1 First General Meeting of the SME UNI (November 7, 2018)

Schedule

a) Presentation of New Directive 2019
b) Thursday and Friday Event (REALIZED)
c) Long Term Planning Course (REALIZED)
d) Strategic Alliances (PENDING)
   a) AMAUTAS
   b) OMA (Mirna)
   c) IEEE (Nicolás)
e) Innovation and New Ideas
   SME PANEL
   Budget (Anderson, Wilmer)
   Design (Jonathan, Abregú)
f) Integration and Diffusion
   - YOUTUBE
   - FACEBOOK
   - LINKEDIN

2.1.2 Second General Meeting of the SME UNI (November 21, 2018)

Schedule

a) SIPLAMIN Integration Activities
b) Meeting with Mrs. Marisa De Amico

2.1.3 Third General Meeting of the SME UNI (December 5, 2018)

Schedule

a) Panel
   a) Design: Juan Abregú
   b) Project (position, cost, objetive, advantage): Sammy Chiroque
   c) Valorization: Carlos Vera
   d) Letter to Ing. Tevéz: Angello Rivera
   e) Plane: Iván Isla
b) Recruitment
   Date: 21 December time: 5:00 pm
   a) Hall letter: Alexander Escalante y Luis Tineo
   b) Banner: Jerson Mallqui
   c) Marketing: FB SME CHAPTER UNI Angello Rivera
   d) Presentation PPTS: Diego Segura
c) Long Term Planning (LTP)
   a) Summary: Spanish e English Alex Falcón
   b) Design: Luis Tineo y Sammy Chiroque
d) Guide from the SME’s website
   a) Lawns: students organization, allowance
   b) Papers: Alex Falcón

e) Meeting
   Schedule 19 December, 2018
   a) Invitation to Ing. Corimanya y Mrs. Marisa
   b) Letter of invitation: Luis Tineo

2.1.4 First Directive Meeting of the SME UNI (December 12, 2018)

a) Schedule
   a) Rules of the University
      R.D.050-2015 “Oficialization”
      R.R 0845-2018 “Institutional Recognition”
      R.R 0825-2017 “Retention Taxes”
      R.R 0507-2018 “Researching Project”
      R.R 0097-2017 “Subventions Conferences”
   b) Rights
      - Material, technical and economic support prior to the presentation of a schedule of activities SME UNI
      - Contribution to professional and personal development
      - ART. 011 y ART.012 Free Activity: habilitation of services and classroom
      - ART.013 Economic Help: FIGMM
      - ART.014 Economic Resources: R. E546 R.R 825
      - ART.016 A.E recognized can ask spaces in the college
      - ART.017 1 credit for Extracurricular Activity
      - ART.018 Certificates by Corimanya
   c) DUTIES
      ✓ Semester report
      ✓ Technique- Economic balance
      ✓ Assistance act
      ✓ Participation for anniversary of college and project

b) Annotation
   a. Researching project
   b. Diversification SME (value areas to develop)
   c. Make sign and flag –SME
   d. Search spaces of chapter
   e. Give presents
   f. Directive ex member SME (Ralph)
   g. Annual plan meeting (Monday 17 – 3:00pm)
   h. Meeting with Ing. Brañes
   i. Search of companies to give certificates
   j. Coffee break (Mancilla, Tapia)
   k. Get camera (Mirna)
   l. Banner for recruitment SME-monday
2.2 Year 2019

2.2.1 First Directive Meeting of the SME UNI (February 5, 2019)
Assistance: Six board members
Place: Mining Circle’s Office
Schedule:

1. Objective and activities
2. Annual Plan 2019
4. Deliverables for the ABET meeting Friday 18:00 hr
5. Memberships

2.2.2 Second Directive Meeting of the SME UNI (March 14, 2019)
Assistance: Five board members
Place: Mining Circle’s Office
Schedule:

1. Restructuring the organization chart
2. Section MEC
3. Convene a General Meeting of members

2.2.3 First General Meeting of the SME UNI (April 03, 2019)
Assistance: Five board members and seventeen student members
Place: Mining Rescue Office
Schedule:

1. Renewal of the Organization Chart
2. Report by Juan Tarazona: Annual Conference
3. Presentation of the Annual and Semestral plan
4. Management for Soft Skills Workshop
5. PERUMIN planning competition
6. Management for technical visit for company suppliers in Lima
7. Brainstorm that can contribute to the group
3 STUDENT CHAPTER’S ACTIVITIES

3.1 Mining Software Workshop

*Underground mine design*

October 21, 2018

On Sunday, October 21, as part of the cycle of activities of the student chapter SME Student Chapter UNI at the FIGMM facilities, a training course was held on "Underground mine design" by Franco Ronald Tito who is technical draftsman specialized in the design of underground mine, current surveyor and cadista of the Mining Company Condestable.

This software workshop was aimed at students from fifth to tenth cycle of the National University of Engineering, in which mining work was designed as:

- Ramps
- Pits
- Chimneys
- Galleries

In addition, reports of daily progress in mine were made to with AutoCAD software in order to comply with the requirements elaborated by the Planning team.

The experience offered by Franco was rewarding for the students who attended due to the great contribution of their knowledge in the topic of Mine Design and in the development of underground mining activities, which are fundamental issues in the academic development of engineering students of Mines.

We thank Franco Tito for having his time for the training given to our colleagues at the National University of Engineering.
3.2 “Long Term Mine Planning”

*Exposition of past president of SME Student Chapter UNI*

November 28 and 30, 2018

As part of activities by SME Student Chapter UNI, on the days 28th and 30th of November, Mining Software have done with the help of student Erick Hinostroza of tenth cycle who has many experiences participating in contest of planning with the advice of professional distinguished in our career.

The course was oriented to students of eighth to tenth cycle, it was needed information about block model and parameters was required to make a correct planning like percent of recovery, laws of minerals, ore class, minerals prices, mined cost, etc.

This training is very important for our future graduates, because it provides knowledge of how to make a planning from the beginning of the mine with geological data. Consequently selecting until pit should be operated with the Whittle Methodology and the design of phase. The determination of the “life time of a mine” (LOM) with the data that the software provides us after an optimization analysis and the initial investment with the help of information from other mines with similar characteristics that can be found on the page of the MEF. One of the main objectives of this training is select the students who will represent UNI in the Mine Planning “PERUMIN 34 Mining Convention” to be held next year in the city of Arequipa.

In this opportunity have taught the next topics:

- Economic Model.
- Nested Pit.
- Optimal Extraction Sequence.
- Pushback Generator.
- Scheduler.

When starting a long-term plan, we have to have the block models (measured, indicated and inferred). We create in the software with the following parameters: Ore price, refining cost, cost of mining, dissolution, recovery percentage.
After this, we import the topography and the slope regions, which are so contained in CAD files. We assign the names in each region and we run the software whose result are tons of waste, oxides and sulfides.

In configuration of optimization of the pit we load the parameters like: annual discount, to maximize the cash flow, sequencing using factor price (maximum revenue factor), slope we run the program and as result pit are generated until arriving at the optimal pit by means of the analysis of the graphic thrown.

These results were due to the application of the Whittle method, which is based in the economic models, and the Lerchs and Grossman optimization model, which is presented, in the following graphic.

In the generator of phases or pushback generator with previous configurations determines how to extract the minerals and waste in the pit.

The scheduler gives us the information of how much will be produced per year of minerals and waste with previous configurations like the total tons per day and stripping ratio according to the mine engineer.

This events had a good reception from students from which we provided knowledge of this mining software.
3.3 Christmas chocolate FIGMM

*Exposition of past president of SME Student Chapter UNI*

December 16, 2018

As is tradition in our faculty, on December 16 the student center of the FIGMM, with the support of all the student associations, held a Christmas chocolate and the basket raffle for the students.

In addition, the various associations of the faculty delivered Christmas baskets to the cleaning, security and technical support staff for their hard work in maintaining the study environments in optimal conditions and the support provided to the students to carry out their various activities.

The SME UNI delivered 2 Christmas baskets, wishing them a happy Christmas with their family and thanking them for their support during the realization of the different activities carried out during the year.
3.4 Meeting with our Dean and Mrs. Marisa De Amico

*Strengthening ties between the SME and UNI*

*December 21, 2018*

With the aim to develop research and participate in national competitions, we met with Marissa de Amico, Manager of SME Latin America, and MSc. Mr. Jose Antonio Corimanya Mauricio, dean of the Faculty of Geological, Mining and Metallurgical Engineering (FiGMM) in the FiGMM Office of the Dean. We have exchanged ideas and we have strengthened his commitment to support research and participation in the different "Planning of Minas" in representativeness of the University that will be developed during the year 2019.

The dean undertook to assign two professors as tutors for the team participating in the "Mining Planning" that will be developed in the city of Arequipa, parallel to the PERUMIN 33 Mining Convention. The authorities also committed to collaborate with the procedures and access laboratories to develop research in the area of metallurgy with the aim of participating in the "PAPERS" contest organized by the SME.
3.5 “Welcome to the SME Student Chapter UNI”

First Call 2019

December 21, 2018

On Friday, December 21 was held in the auditorium of our faculty, the call SME 2019, which had the participation of chapter members, graduates (former members) and students invited from the Faculty of Geological Engineering, Mining and Metallurgy of the UNI.

The event took place in the following manner: words of farewell to the outgoing president, presentation of the new board of directors, what is the SME, SME Student Chapter UNI, who are we, student membership benefits, 2019 plan of activities, story of the experiences within the chapter of our graduates, and how could it be missing, a delicious Coffea break.

The year 2019 will be marked by very important events for mining engineering students (PERUMIN and CONEIMIN); it is for this reason that we are already planning to have a commendable participation representing our university, through courses, workshops, etc. that allow students to develop personally and professionally, as has been developed since our foundation in 2015.

Additionally, we will strengthen the company-university synergy, through the development of courses, integration activities and research projects, with the sole purpose of raising the prestige of our beloved university.

Photographic Record with the Call for Assistants
3.6 “Introductory Mining Engineering”

Summer Course for students of first years

February and March 2019

When analyzing the phases of a mining operation (exploration; development; preparation; exploitation), many questions arise about each stage of the mining operation, such as:

- Why does the exploration phase take so long?
- Why should the exploitation be underground or superficial?
- When and why do you transition from underground to superficial?
- What is the mine cycle?

Then understand the concepts in mining, processes and many more factors will allow us to understand the value chain of the mining business. It is for this reason that we dictate the introductory classes to mining to our classmates of lower cycles of the UNI with order to focus on the mining world and what it encompasses. These activities were dictated by the students Robert Bulnes and Angello Rivera; members of the student chapter in the environments of the FIGMM-NATIONAL UNIVERSITY OF ENGINEERING OF PERU.

There were several sessions that were carried out during the summer; the classes were dynamic, because with this methodology (emitter-receiver), we managed to understand the doubts of our companions, thus achieving an efficient class.

Publicity upload to social networks
3.7 “Welcome at the UNI”

*Incoming welcome*

March 08, 2018

We believe that the welcome of the incomers to the FiGMM, which is an important work, it is a crucial impact to the prospect that the insured will have about his faculty. This reception, which took place in the auditorium of the faculty, consisted of the presentation of the cultural centers and student chapters, which each presented his mission and vision.

At the end of the presentation, the raffle was made of books (related to the career) and magazines (Annual Report of activities).

Then, there was a tour by the faculty (museum, laboratories, sports court, computer, halls, and statistics).
3.8 “Pre-professional Practices, Learning and Experiences”

*Exposition of student members*

Abril 12 and 19, 2019

During the summer vacation of 2018, the students of the advanced mining engineering courses of the National University of Engineering had the opportunity to perform pre-professional internships in the various mining companies of our country. With the objective that they share the experience among all the students of our faculty. The SME-UNI organized a discussion session calling on students who belong to our student chapter to be speakers and answer questions about all their experience in a mine.

The Faculty of Geological, Mining and Metallurgical Engineering received very well this event, for which two dates were held on April 12, 2019 and April 19, 2019.

Speakers:

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<td>April 12, 2019</td>
<td>Rusbel Juárez Poderosa Mining Company, La Libertad</td>
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<td>Anderson Capcha Apumayo Mine, Ayacucho</td>
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<td>Luis Meza AC Mining Company, Ancash</td>
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<td>Armats Giarnelly San Ignacio of Morococha Mining Company, Junín</td>
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<td>April 19, 2019</td>
<td>Christian Ghiggo Poderosa Mining Company, La Libertad</td>
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<td></td>
<td>Ralph Evangelista Poderosa Mining Company, La Libertad</td>
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</tbody>
</table>

“Official photo of the speakers together with the students”
3.9 “Introductory Mining Engineering”

Course for students of first years

May 2019

Three sessions were developed during May, at the facilities of our beloved faculty, directed by fourth-year students. It was attended by 15 students of the second year, who had requested to repeat this course that had already been developed in summer.

During the sessions the value chain of the mining business was explained, from the exploration, through the planning of mining, exploitation and metallurgical processing, to transport and marketing.

Grateful to our partners for their availability and willingness to share their knowledge to their classmates; to the attending students for the interest shown and the administrative staff for facilitating the use of the space.
4 STUDENT MEMBERS’ PARTICIPATION

4.1 "The Fault in the Slope Superior of Manefay - Bingham Canyon"

Assistance to the Second Technical Breakfast: Krumb Lecturer Program

August 16, 2018

On August 16, Dr. Brad Ross led a conference, organized by SME Latin America, where he shared his experience in solving the biggest challenge of his career: The Fault in the Superior Slope of Manefay in Bingham Canyon, Kennecott Utah Copper. The speaker placed great emphasis on the importance of leadership and effective communication between engineers, technicians and workers, as well as monitoring the stability of slopes, of which, he mentioned, hydrogeological control was necessary. It should be noted that, despite the magnitude of this slippage of the slope, there were no casualties, and this is due to the company's risk and safety assessment policy that had already foreseen this landslide, but they did not expect such magnitude of the event. There are two main lessons that the speaker highlighted: Analyze always different points of view (external consultant without biases) and the complacency that originates after an achieved achievement. The SME Student Chapter UNI was present at this event, thanks to the invitation of SME Latin America, whose members had the opportunity to converse with such a distinguished person, who provided anecdotes and lessons from his personal experience as a guide and advice for the new generation of engineers.

“Official photo of the speaker together with the students, members of the student chapters of Lima”
4.2 “Business Social Innovation in the mining sector”

Assistance to the Innovation and Leadership Workshop

September 14, 2018

On September 13, 2018, we participated in the Innovation and Leadership workshop, given by i-RIMAY company, represented by Omar Lozano, who is a recognized Mining Engineer.

The workshop took place on the offices of Metallurgy and Mining Exploration Society located in Surco-Lima, and the SME chapters of the different universities of the country attended it. The workshop dealt with matters such as problem solving in the mining industry using of the “Design Thinking”.

For the development of activities, we were randomly grouped into teams of five people; each team should identify the problems. Thanks to this, the members of the different chapters could get to know and integrate to each other, exchanging opinions and approaches. In this way, we will coincide with the main problems that affect the sector are social, environmental, technological and academic training aspects of the professionals involved in mining.

Faced with these problems, different alternatives were proposed such as active state intervention, dissemination of information about mining, improvement in education, among others.

We are very grateful for this, since we have the possibility to enhance our skills and abilities to solve problems and leadership, which will be a great utility to solve problems related to the mining-energy industry in our country. We will continue betting to promote a new approach of development among the youth of our chapter and our university.
4.3 XIX Peruvian Geology Congress

Assistance at the trade fair and technical conferences

September 23 – 26, 2018

As part of our goal to strengthen the knowledge of our members, some members of the SME Student Chapter UNI participated in the XIX Peruvian geology congress that took place on September 23-26, 2018, which took place in the facilities of the Lima Convention Center.

Meeting with Marisa

On September 25, 2018 during the afternoon, the members of the SME Student Chapter UNI had a meeting with the administrator of SME in Latin America, Mrs. Marisa De Amico on the stand of that organization. Where they addressed topics such as metallurgy research, environmental research and the contest in mine planning in the PERUMIN 2019.
4.4 CONEIMIN 2018

Participation in Competitions

October 15 – 20, 2018

The XIV National Congress of Students of Mining Engineering (CONEIMIN) San Marcos 2018 gather students, professionals and companies from the mining sector at the national level in order to consolidate knowledge and at the forefront through lectures, theoretical competitions-high performance academic-professional practice mentoring workshops and leadership. All of this, from 15 to 20 October, at the National Major University of San Marcos.

During the event, student delegations from universities across the country participate in the different competitions, obtaining the National University of engineering the first place in the cumulative score of the XIV Coneimin San Marcos-Lima 2018, this could be achieved thank to the participation and commitment of the companions of the mining engineering specialty of the FIGMM.

An achievement for the joint work of student groupings mining circle Mario Samamé Boggio, Safety Equipment And Mining Rescue – ESRM UNI, ISEE UN student chapter y SME UNI.

The SME student chapter UNI was present during the competition through the participation of its members, who obtained the second place in the following contest:

- MINE DESIGN AND PLANNING CONTEST
  - Contest sponsored by Datamine, which consisted in making a conceptual study of a mining project based on the model of block and technical parameters.

- MINING DEBATE CONTEST
  - Contest that faced two delegations, assigning each are a character, which could be the state, the company or the community, and discussion about an assigned topic, could be the state, the company or the community, and discuss issue assigned.

- ROCK AND MINERAL RECOGNITION CONTEST
  - Contest in which the first phase consisted of a theoretical examination, and the second, of a field exit where the minerals were recognized and rock in function of its physical and chemical properties.
A special greeting for them who achieved a meritorious place, and manifest our commitment to continue working to bring more wins to our home of studies.

“Meeting as a team is the principle, staying in team is progress, teamwork ensures success”.

“Publication on our Facebook page indicating the positions of merit obtained in each contest that took place, this allowed us to be the university with higher cumulative score”.

“Publications of our Facebook page, congratulating our fellow members of the student chapter for the achievements obtained in the respective contests in which they participated”.
4.5 SME Annual Conference 2019

Testimony of student member: Juan Tarazona

February 24 – 27, 2019

“My name is Juan Diego Tarazona Alfaro, student of the Mining School of the National University of Engineering and it is an honor for me to be part of the SME Student Chapter UNI, which not only gave me the opportunity to live a unique experience but also to enrich my knowledge through the Annual SME Conference 2019 held in the state of Denver, United States.

During my stay, I had the opportunity to attend different conferences about different topics directly related to my career, which enriched my knowledge and expanded my field of interest. In addition, I had the opportunity to develop proactively as part of the staff of exhibitors at the stand of the Institute of Engineers of Peru at the exhibition hall in that event. The experience gained was invaluable on each day of the conference.

The first day I had the opportunity to familiarize myself with my colleagues from different universities in Peru, with whom we shared a moment of coexistence in a group, which helped to establish better relationships.

On the second day, I was in charge of the stand of the Institute of Engineers of Peru at the exhibition hall during the middle of the day, which allowed me to attend conferences of great importance and value.

On the third day, I had the opportunity to socialize in the different events organized by different companies like Komatsu and Freeport Mc Moran, which allowed me to establish communication and socialize with colleagues from other universities in the United States as well as in South America. In addition, I was able to meet different mining professionals who very kindly gave me their experience in the field.

The fourth day was one of the best days since I was able to attend a large part of the conferences and share some pleasant moments with colleagues and professionals from different countries of the world, who very kindly gave me a few moments to share and be part of such an important event.

This experience was one of the best that I could have academically, since they helped me develop in different aspects of my personal and academic life. I am proud to have represented my faculty in this event and always leaving the name on top of our chapter SME UNI”.

SME Uni in Denver
4.6 Pro EXPLO 2019

Assistance to the International Congress of Prospectors and Explorers

May 20 – 22, 2019

In the framework of ProEXPLO 2019 held in May 20 to 22, the SME Student Chapter UNI participated in an attractive program of activities clearly focused on the business of mineral exploration, which include sessions on applied innovation, geological services, management of mining exploration projects, and the exhibition of successful cases in our country, in recent years.

We can also participate in a technological and commercial exhibition, which will be the ideal scenario for mining companies and those of services for exploration, in addition to showing their technological advances for the improvement of productivity and relations with the social and environmental environment.

We were able to obtain new information about the new projects that are being carried out in our country. For example, in the stand of the Ministry of Energy and Mines, they could give us more details about the current regulations and the modifications of laws that we must take into account at the moment of performing a mining exploration. We also received a brief talk about some projects of the company Nexa; it is worth highlighting the “Cañon Florida” project, a description of the study area, the geological model, the exploitation method they will use and the treatment that the plant will give to the mineral for its recovery. We were also able to receive a more detailed explanation about the type of deposit that the MMG company operates, on its main mine in Peru (Las Bambas), based on its drill core.

In addition, in other stands we could see about the new advances in exploration, the use of new software for the treatment of both aerial exploration data and geochemical exploration.
ANEXO 1: Minutes of the General Meeting of the SME UNI N°001-2019

MEETING MINUTES OF THE MEMBERS OF THE SME STUDENT CHAPTER UNI
N° 001 -2019

DATE: April 3, 2019
TIME: 4:40 PM
PLACE: MINING RESCUE’s Office

At 16:40 of the month of April of the year 2019. Gathered in the classroom of the mining rescue of the Faculty of Geological, Mining and Metallurgical Engineering of the National University of Engineering and with the presence of 17 assistants:

Under the presidency of Angello and acting as secretary Alexis, began the meeting of members of the Student Chapter SME UNI N ° 001 - 2019

SCHEDULE:

1. Renewal of the Organization Chart
2. Report by Juan Tarazona: Annual Conference
3. Presentation of the Annual and Semestral plan
4. Management for Soft Skills Workshop
5. PERUMIN planning competition
6. Management for technical visit for a company suppliers in Lima
7. Brainstorm that can contribute to the group

1. RENEWAL OF THE ORGANIZATIONAL CHART

Based on the goals and objectives set for this year, and at the suggestion of some members and the representative of SME Latin America, Marisa Amico, it has been convenient to create Sections within the organization and the Academic Development Section, which will have the following functions:

a) MEC Section: Manage social responsibility activities, such as visits to schools to publicize responsible mining and motivate students to pursue a university or technical career. In addition, he will be responsible for managing soft skills workshops as a contribution to the personal development of its members.

b) Geology Section: Integrate students of geology to the Chapter and form a circle of studies oriented to geological modeling and the use of software such as Leapfrog or Minesight.

c) Metallurgy Section: Integrate metallurgy students to the Chapter and develop Papers for the mineral processing and environment media poster competitions.
**d) Sec. of Academic Development:** Coordinate with students from third to sixth cycle (students from other cycles can also attend) for the development of courses of Introduction to Mining, Geostatistics, Introduction to Mine Planning. So that from that way, with a theoretical basis, to start working with the software and that way they arrive at the 8th cycle with a base in planning and software. Later, perfect them with courses with graduates so that they can have a good performance in the different contests that are and represent the best way to the faculty, and the UNI.

The positions of Section MEC and Sec. Of Academic development were made available to the members. At the end of the meeting, Juan Abregú and Julio Samamé expressed their interest and commitment to hold the position.

The official organization chart for this cycle is as follows:

![Organization Chart]

2. **REPORT OF JUAN TARAZONA: ANNUAL CONFERENCE**

Our colleague Juan Tarazona gave a brief summary of his participation in the Annual Conference SME 2019 held in February in Denver, Colorado. He stressed the importance of: Intermediate level of English, have the American Visa and the audacity to engage in conversations with the different people present there. Thanks to his assistance, he was able to obtain a lot of printed and digital information, from the supplier companies that presented and the conferences that were held. The digital information will be shared to all the members by means of a drive, and the printed one, will be placed in a bookshop that is considering to have in the long term.
3. PRESENTATION OF THE ANNUAL AND SEMESTER PLAN

The 2019 annual plan was presented in summary, with the most important activities and events of the year.

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<td>Social responsibility</td>
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<td>Paper of Metallurgy and Environment</td>
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In parallel, the divisions of Geology and Metallurgy, as well as the Secretariat of Academic Development, will also carry out their activities.

The members in charge will be in contact with the group for the management and realization of the activities of this month.

4. MANAGEMENT FOR SOFT SKILLS WORKSHOP

We are in contact with Eng. Homar Lozano, to provide a soft skills workshop in the faculty, Juan Abregú has already begun to make the respective coordination and the schedule is a Saturday of this month. You can learn more about Homar and his company on his Facebook page "Social Entrepreneurial Innovation"

5. PERUMIN PLANNING COMPETITION

We gave some scopes of what has been done this summer, and will convene a meeting to discuss this specific issue, will coordinate with codes 15-1 and 15-2 to have a time when both coincide, as they are the people called to represent us.

6. TECHNICAL VISIT MANAGEMENT FOR A SUPPLIER COMPANY IN LIMA

The general secretary, Alexis Mancilla, will manage this visit and will inform us of the progress.
7. RAINFALL OF IDEAS THAT CONTRIBUTE TO THE GROUP

a. EXPOSITION OF PRACTICES REPORT: The idea was raised that students who have just completed their pre-professional practices in different mines in the country, may be the opening acts of the meetings that are held, sharing their experience in the mine. This would be a great contribution for the members that still did not have the opportunity to practice and in this way they could know how is the selection process and the real work in mines. Among the student members of the SME who did their practices this summer and to which the respective invitation will be made will be:

- Max
- Ghiggo
- Mirna
- Raplh
- Giarnelly
- Capcha
- Poma

b. MERITS TABLE: In order to motivate the participation of the members, it was agreed to have a general merit table. These tables of merits will add different scores to students based on their punctuality, responsibility and participation in the activities of the chapter with the compensation they have to consider when distributing tickets or quotas to conferences, events or technical visits based on their commitment and effort. This table will not be decisive, but will give greater possibility to active members. For example: If you have 10 tickets for an event, 5 will be assigned based on this table and the remaining 5 will be by general draw among all the members. To promote the participation of all, it will be treated as much as possible; in two consecutive events are different people who participate.

c. SME Member Handbook UNI: It was proposed to create a Manual that serves as a guide for every student that enters the student chapter, mentioning the vision and mission of the group, organizational chart, functions of the secretaries, information of the different activities, benefits of the membership, etc.

d. PLAN OF WORK OF EACH SECRETARIAT: It was proposed that each secretariat submit a work plan for this semester, including goals and objectives, which must be presented to the other members to make corrections or approvals as appropriate.

e. FERIA INSPIRANTE UNI: Between the days 21 to 25 of June this fair will be held, in which volunteers will be recruited to support the school guide through the faculty in order to know their facilities. The SMI UNI will offer its support so that this activity is developed in the best way.

i. OBSERVATION TO THE ACTIVITY PLAN: Thanks to the intervention of one of the members, the suggestion is made that the annual / semester plan includes the percentage of progress of each activity that is proposed in order to observe our performance.
f. **LABOR INTERVIEW:** As a second coaching session of the year, it has been proposed to do job interview simulations in order that our members are prepared to face these types of situations. The date and speaker are still under observation.

The presence of the members and their active participation in this first general meeting are appreciated.

A special thanks to the ESRM-UNI (Mining Rescue) for facilitating the use of its facilities to develop the meeting.

At 7:00 p.m. the same day, the meeting of the Student Chapter SME UNI N° 001 - 2019 was held.