



## Student Chapter

### Escuela Superior de Ingeniería UAdeC

# ANNUAL REPORT

## SME 2019-2020



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Nueva Rosita, Coahuila  
México.



[fb.me/SC.UAdeC](https://fb.me/SC.UAdeC)

# SME

Society for  
Mining, Metallurgy  
& Exploration<sup>®</sup>

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# Student Chapter Escuela Superior de Ingeniería UAdeC

## Officers 2019-2020



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## 1. INSTITUCIONAL PRESENTATION

### 1.1 History of university.

#### **Universidad Autónoma de Coahuila Escuela Superior de Ingeniería “Lic. Adolfo López Mateos”**

The Mining School, today Escuela Superior de Ingeniería Adolfo López Mateos, was born in the coal basin in the face of the need for an institution in this region of the state to train the mining engineers and geologists who demanded local economic development.

The first approach to form the school was made by a group of citizens of Nueva Rosita, before the president of the Country, Adolfo López Mateos. In the decree that creates the University of Coahuila (UC) of 1957 the birth of the Mining School is raised.

This school currently has the careers of Geological Engineer and Engineer in Mineral and Energy Resources. Where the enrollment is approximately 200 students in both careers, this in turn limits enrollment in the student chapter.



*Illustration 1. Escuela Superior de Ingeniería UAdeC.*

### 1.2 Student Chapter Vision

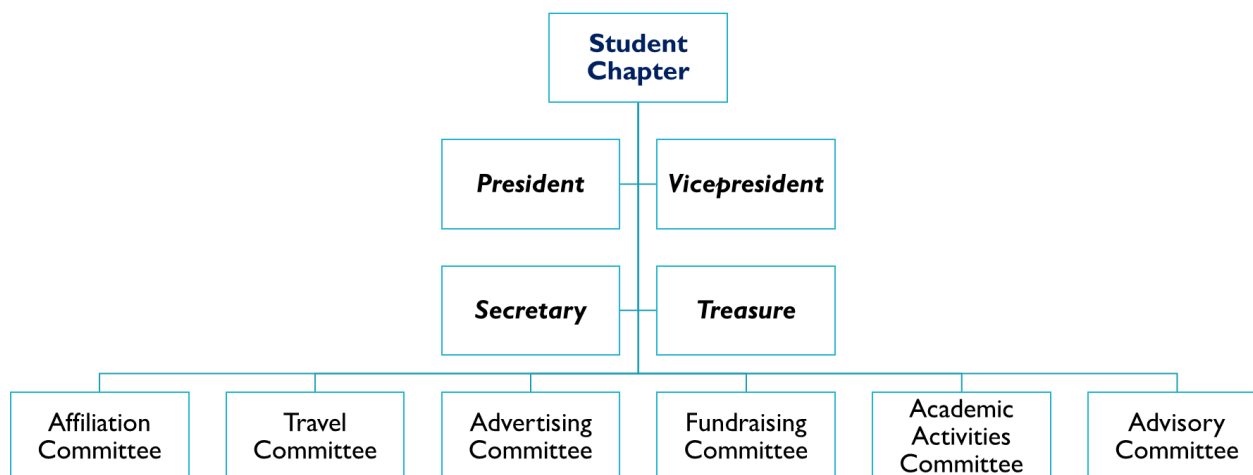
By 2022, be a leading student chapter in Mexico that uses knowledge to solve mining, metallurgical and geological problems

### 1.3 Student Chapter Mission

Potentialize the development of professionals in the field of mining, metallurgy, geology and other branches of the sector by promoting mining and metallurgical research, according to the needs of companies and society.

### 1.4 Organization chart

With the objective of organizing the activities of the student chapter, it was decided to start with committees with specific functions according to the needs that were presented both for the members and to support the student community, such is the case of the advisory committee that is aimed at the support of first and second semester students.



Each committee has a representative, however, all members are free to contribute ideas in any committee, this is one of the benefits of having a student chapter within the faculty as it motivates student leadership.



*Illustration 2. First members of the student chapter.*

## 2. PRESIDENT'S REPORT

*"Each achievement begins with the decision to try."*

*- Gail Devers*

This is how the beginning of something completely new, not only for students participating in the project, but for a whole school full of future engineers focused on the study of branches of geoscience.

It was in the sixth semester of the race when I learned from the Society of Mining, Metallurgists & Exploration, the largest organization in the world about something focused on my study career, it was a new and great opportunity that as a student could take advantage even more if it was a Student Chapter, that is how the idea came up with the support of these professionals and began the recruitment of colleagues committed to the work and the desire to leave was launched, achieving authorization and official creation of the Student Chapter Escuela Superior de Ingeniería UAdeC, being one of the very few existing linked to the SME in our country Mexico.

The activities were varied throughout this cycle, focusing on the commitment to support the student community as basic software courses used as geoscience engineers, fundraising, recreational activities, among others, we achieved at the same time the affiliation of new classmates that through these activities arouse their interest to belong to our Student Chapter.

The beginning of every project is usually the most difficult, but to become large you have to start from the smallest, this is how the perspective I have as one of the initiators and first president of the Student Chapter ESI UAdeC are great and I know that whoever belongs to this project will open endless doors full of opportunities, despite being a school with small enrollment, the interest and support of activities by the rest of the student community is quite large.

This is how I feel very grateful in this 2019-2020 cycle the great opportunity to belong to this Student Chapter and even more for becoming the president, my work in the chapter does not end here, this continues my work within this will be another because my They want to keep growing and they are a great way to achieve it.

*Ricardo Antonio García López*

*President 2019-2020*

### 3. SECRETARY'S REPORT

#### 3.1 Synopsys

Being part of the first Student Chapter of the Escuela Superior de Ingeniería is a great privilege along with the opportunity to be official. This year was a learning event for all of us who decided to be part of this. This position allowed to develop organizational skills, writing, adaptation and flexibility, communication, among others. But the most important thing is that different people are known of whom perhaps the activities or the schedule would never coincide and thanks to that they form friendships.

#### 3.2 Minutes

As part of the student chapter, monthly meetings are needed to address topics of interest. During the period of March 2019 - December 2019, 6 ordinary meetings and 7 extraordinary meetings were held.

##### *Regular meetings*

Date	Affair
<b>March 08, 2019</b>	<ul style="list-style-type: none"><li>- Define name of the student chapter: "Escuela Superior de Ingeniería UAdeC"</li><li>- Promote exploration and professional responsibility.</li><li>- Define how the meetings will be.</li></ul>
<b>March 29, 2019</b>	<ul style="list-style-type: none"><li>- Start activities (create a committee together with objectives and goals).</li></ul>
<b>May 31, 2019</b>	<ul style="list-style-type: none"><li>- Results of the first activity of funds.</li><li>- Actions to be taken for the remaining tickets.</li><li>- Upcoming activities that can be carried out.</li></ul>
<b>August 29, 2019</b>	<ul style="list-style-type: none"><li>- Balance of the activities that have been carried out.</li><li>- Carry out short courses of some softwares.</li><li>- Organize the following activity of fund collection.</li></ul>
<b>September 26, 2019</b>	<ul style="list-style-type: none"><li>- Welcome new members.</li><li>- Talk about the importance and benefits of belonging to sme</li><li>- Monthly treasury report</li><li>- Budgets for the planning trip.</li><li>- Define academic activities committee and academic activities committee.</li><li>- Information about the current hydra-medusa software course.</li><li>- Buy office supplies</li></ul>
<b>October 31, 2019</b>	<ul style="list-style-type: none"><li>- Student chapter t-shirts.</li><li>- Minerals project.</li></ul>



*Extraordinary meetings*

Date	Affair
<b>May 03, 2019</b>	<ul style="list-style-type: none"><li>- Choice of chapter logo.</li><li>- Activities to be carried out to collect funds.</li></ul>
<b>August 13, 2019</b>	<ul style="list-style-type: none"><li>- The sale of food is organized to collect the funds.</li><li>- Present the chapter to students of new income.</li><li>- Possible conferences.</li><li>- Visit to Monterrey.</li></ul>
<b>August 21, 2019</b>	<ul style="list-style-type: none"><li>- Set day for the monthly meetings.</li><li>- Decision of the activity to collect funds.</li></ul>
<b>October 03, 2019</b>	<ul style="list-style-type: none"><li>- Answer by the school address, to make use of the facilities by the chapter three days of the course.</li><li>- Fine last details for the course to be carried out on Saturday, October 5 and October 12.</li></ul>
<b>October 10, 2019</b>	<ul style="list-style-type: none"><li>- Tune details of the trip to the oven in Monterrey.</li><li>- Define what will be the design that will have the canvas.</li></ul>
<b>October 23, 2019</b>	<ul style="list-style-type: none"><li>- Preparations for the "slide" software course.</li></ul>
<b>November 06, 2019</b>	<ul style="list-style-type: none"><li>- Sample of the itinerary of the trip to Monterrey</li></ul>



### 3.3 Members

The following list shows students who attended meetings and differentiates between those are paid members and those who are not.

No.	Name	Member number	Status
1	Erick Jesús Costeira Leiva	4270146	Not renewed
2	Ricardo Antonio García López	4270245	Active
3	Samantha Elguezabal Martínez	4270248	
4	Gustavo Ángel Piedra Posada	4270250	Not renewed
5	Alexis Alejandro Rico Lozano	4270276	Active
6	Jesús Nerio Rocha	4270285	Active
7	Danay Alexandra Charles	4270379	Active
8	Blanca Rosa González Bonilla	4270380	Active
9	Gretel Hernández Martínez	4270425	Not renewed
10	Christopher Fabian García Martínez	4270455	
11	Leticia Sofía Menchaca Álvarez	4271317	Active
12	Juan Miguel Barrera Martínez		Active
13	Natalia Aglaee Valdés Briones	4276063	Active
14	Yuliana Yaquelin Ramírez Tapia	4276064	Active
15	Walberto Rodríguez Flores	4276096	Graduated
16	Roberto Alejandro Morales Domínguez	4276132	Active
17	Frida Mariana Múzquiz Esquivel	4276136	Active
18	Jesús Raymundo Leiva Franco	4276448	Active
19	Juan José Valerio Sandoval	4276465	Active
20	Larissa Lizeth Esquivel Neaves	4276493	Active
21	Arturo Elizondo Villanueva	4277029	Active
22	Alejandra Elizabeth Lumbreras Farías	4278932	Active

## 4. TREASURE'S REPORT

### 4.1 Synopsis

It is an honor to have the position of treasurer within the student chapter especially for the beginning of this, in February 2019, being the main challenge to generate an initial fund with which more activities would be coordinated ahead to increase the amount and in this way pay future expenses.

Keeping the accounting of the chapter was an enriching experience that mainly generated a logical approach and organization to have optimize the use and investment of resources, as well as keeping the general records, receipts to prepare and submit monthly reports.

### 4.2 Balance Brought/Carried

Below is a relation of the gains and expenses that were made during the 2019-2020 period.  
(National currency conversion 1 US = 19.29MX)

CONCEPT	Profits	Expenses
<b>STARDING CAPITAL</b>	\$ 181.44	
<b>Fundraising activities</b>	\$ 398.39	
<b>Short Course</b>	\$ 55.98	
<b>Publicity</b>		\$ 31.10
<b>Coffee break short course</b>		\$ 25.13
<b>Office Items</b>		\$ 18.14
<b>Stationery expenses</b>		\$ 25.40
<b>Travel expenses</b>		\$ 347.33
	\$ 635.81	\$ 447.10
<b>Balance</b>		\$ 188.71

## 5. CHAPTER ACTIVITIES ON CAMPUS

### 5.1 Fundraising activities

A committee was formed to organize the fundraising activities. The following shows the list of activities carried out during the year.

Activity	Date of realization	Participants	Amount raised MX
<b>\$ 1,000 prize draw</b>	June 26th	11	\$3,500.00
<b>Chicken Sandwiches Sale</b>	August 19th	9	\$2,510.00
<b>Sale of prepared pork rinds</b>	August 22nd	5	\$614.50
<b>Draw of a SME student membership + wireless mouse</b>	September 13th	15	\$1,920.00
<b>\$ 1,000 prize draw</b>	October 23rd	19	\$2,640.00

#### Draw with prize of \$ 1,000.00 MN

As a first activity to form the initial capital of the student chapter, a raffle was held on June 26, 2019 to win \$ 1,000.00 MN in which 11 active members participated, selling 15 tickets with a value of \$ 30.00 each. The draw was made using the last three figures of the national lottery jackpot, the ticket with number 098 being graced in the name of Lolis Rocha.

#### Lunch Sale

##### *Chicken Sandwiches*

On August 19, chicken sandwiches were sold on the esplanade of the school around 11:00 a.m., for this activity a group of three students were in charge of preparing the meal, while the rest of the members of the chapter made social media advertising for sale to students and teachers of the school. It was possible to sell 150 chicken sandwiches at \$ 35.00 each.

### ***Prepared pork rinds***

Another of the sales made on the esplanade of the school was prepared pork rinds, said activity began at 11:00 a.m. and around 45 prepared pork rinds were sold, earning an income of \$ 614.50.

### **Draw of a SME student membership + wireless mouse**

With the aim of increasing the funds of the chapter and obtaining a new member, a raffle was organized to win a student membership which included a wireless mouse, the raffle was carried out by live broadcast on the Facebook page where The winner was Raymundo Leiva third semester student with the number 144.

### **\$ 1,000 prize draw**

On October 23 there was a raffle for live broadcast on the Facebook page, for which 200 tickets were sold with a value of \$ 20 each, the ticket with number 069 being graced in the name of Araceli Alvarado. This activity included the participation of 90% of the members of the chapter.



***Illustration 3. A) prize delivery of \$ 1,000 MN, B) membership delivery and wireless mouse and C) prize delivery of \$ 1,000 MN***

## 5.2 Academic activities

During 2019, the management and execution of several basic courses on the use of software used in the branches of metallurgical and mining engineering was carried out.

The basic courses in the use of software that were coordinated by the Student chapter were in full 3, of which will be mentioned below, each with specifications that entailed:

### **Basic course of HYDRA-MEDUSA software**

**(Thermodynamic analysis of chemical equilibrium diagrams).**

The basic course of using this software was taught by Dr. Adrián Amilcare González Ibarra, professor of the institution.

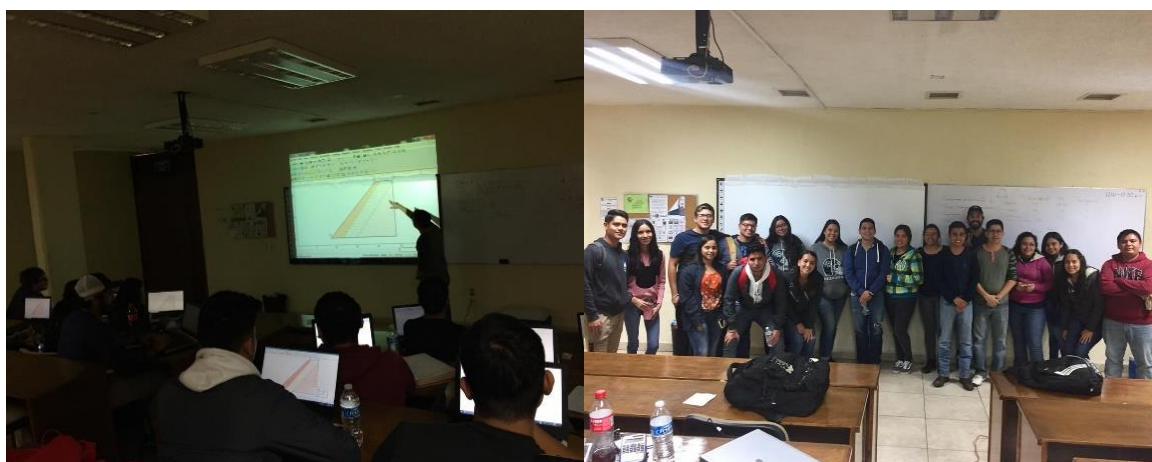
The duration of the course was 16 hours, which were divided into 3 consecutive Saturdays with a schedule of 9:00 a.m. at 2:00 p.m. The course was attended by 24 students, at the end of the course, records were given to those who finished and completed 90% attendance.



*Illustration 4. They show the evidence of the HYDRA-MEDUSA software course together with the participants who took that course.*

### **Basic SLIDE software course (slope stability).**

The basic course of the use of the aforementioned software was taught by the M.C. Christian Lucas Rodríguez, who is a professor at the institution, where the time used for this activity was 8 hours total and was used on a Saturday with a schedule from 9:00 am to 4:00 pm, 18 students attended the course, the dynamics were the same for the participants in the delivery of certificates such as the course mentioned above.



*Illustration 5. Representative evidence in the SLIDE course together with the participants and teachers.*



*Illustration 6. It shows the official delivery of the certificates to the participants in the SLIDE course by the students of the student chapter.*



## Basic course of AutoCAD software (design of 2D and 3D models applied to open pit mining)

The basic course of the use of this software was taught by Ing. Ricardo Campos Esquivel, who is a teacher at the institution, the time used for this activity was 8 hours in which it was divided into 3 consecutive Saturdays of 2 hours each of the schedules that were established were from 12:00 pm to 2:00 pm using the modeling laboratory, where records were also issued to each of the participants who satisfactorily met the requirements of said course. The documentation that was collected in each of the courses is stored in the secretary of this student chapter for any desired purpose (curriculum of the teachers who participated, attendance lists, certificates issued, etc.).



### Duración:

3 sesiones de dos horas

### Días:

23, 30 de noviembre  
7 de diciembre

### Horario:

Grupo A: 3:00 a 5:00 p.m.  
Grupo B: 5:00 a 7:00 p.m.

### Costo:

\$100.00 por sesión

Se otorgará diploma de participación



¡¡Cupo limitado!!

Máximo 15 personas  
por grupo



### Expositor: Ing. Ricardo Campos Esquivel

- Ingeniero en Minas y Metalurgia egresado de la Escuela de Minería de Nueva Rosita, Coahuila
- Superintendente en GeoTop Servicios Topográficos S.A. de C.V.
- Certificado por Minera del Norte S.A. de C.V. y la STPS con el curso de AutoCAD intermedio con temática en el diseño industrial y estructural.

### Más informes

861 108 8011



*Illustration 7. Invitation to the student community published in social networks and evidence of the teaching of the AutoCAD course in the institution's modeling laboratory.*



### Coal mine ventilation conference

The conference was held on October 21, 2019 at the school premises, was open to all students of the career in Mineral and Energy Resources Engineer and Geological Engineer.

The objective of this conference was to show the basic concepts of ventilation in coal mines, which has become a necessary and vital operation for the safety of miners and facilities.

The points that stand out in the presentation are the ventilation systems that are usually used and the description of the equipment for measuring the parameters of the air within the work front. For proper ventilation, a system capable of maintaining a minimum percentage of flammable gas (gray) should be installed at levels that such inflammation is not possible and within the aspects to be taken into account to ensure good ventilation, there are maximum and minimum speeds for the air that can circulate inside according to the dimensions of the mine.



*Illustration 8. Invitation to the student community published in social networks.*



*Illustration 9. Exhibitor and delivery of recognition for his participation in the activities of the student chapter ESI-UAdeC.*

### 5.3 Social

#### Trip to Monterrey, Nuevo León, México

The student chapter attended the Steel Oven<sup>3</sup> Museum, located in the Fundidora Park, Monterrey as a practical visit.

The Steel Furnace Museum "Horno<sup>3</sup>" is a historic and emblematic site of the industrial greatness of the city of Monterrey. It is an Interactive Center for Science and Technology, which through the fascinating processes of steel promotes scientific and technological education among children and young people in a playful way. Since its design and construction, throughout its history, oven<sup>3</sup> has received multiple awards and appointments at local, national and international levels, which place it as a recognized and committed association with society, as well as a pioneer and avant-garde institution in the Science and technology issues.

The museum has different experiences that make the visitor transport at the time of the operation of the old Fundidora. During the tour, the steelmaking processes were described, from their extraction to their transformation, this through interesting and interactive areas present in the place. The historical facts that are part of our industrial heritage were shown and a small laboratory was attended where it was possible to interact safely with the instruments present.



*Illustration 10. Members of the chapter in the steel museum*

### 5.4 Diffusion

#### Invitation to first semester students to register for the student chapter

During the month of September, a visit was made to the new students to the faculty, in order to inform them of the existence of the student chapter, as well as the benefits obtained by belonging to it.

Mining engineering magazines were shown during the talk, where students were very interested in their content.



*Illustration 11. Presentation to new students about the benefits of the student chapter*

### **Participation in the ESI-UAdeC student fair**

With the aim of increasing student enrollment, the school organized a student fair where students next to high school attended, whereby they learned about the facilities of the faculty as well as dynamics that are carried inside.

The student chapter participated through a stand where the benefits of being part of the student chapter as well as the activities organized in it were shown.

High school students were interested, especially for the opportunity to practice a second language, as well as to grow professionally with informed foundations.



*Illustration 12. Student Chapter Stand*



## 5.5 Publicity

Using a tool such as technology, a few calls to encourage students to be part of this new group in the faculty were published on Facebook on the official page of the ESI-UAdeC student chapter. Below are some that were printed in the classrooms of the school and in the most visible areas such as the cafeteria and the library.



Universidad Autónoma de Coahuila

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Únete al Capítulo Estudiantil – Escuela Superior de Ingeniería UAdeC

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*Illustration 12. Announcement published for affiliation to the student chapter, SME.*


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