SME – Student Chapter Annual Report

2018 - 2019

“NATIONAL UNIVERSITY OF THE CENTER OF PERU”

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Huancayo, ☂️ ☀️ Perú

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INTRODUCTION

The students who are members of the SME Society for Mining Metallurgy & Exploration – UNCP Student Chapter submit this annual report of the activities that were carried out from June 2018 to June 2019. We will talk about II CODEMIN 2017, which is a student congress that was co-organized by SME and senior students of the Mining Engineering School. Throughout the congress, coaching workshops were held, there were courses and keynote presentations given by qualified engineers from the mining industry. A student paper contest and rock drilling competitions were also held, having contestants from different universities.

We will also talk about our “Viernes Minero” Program that takes place every Friday. We have had presentations given by speakers including former students who share their experience and information about the mining process to SME members. We will also discuss the training workshops that were organized such as JK-Simblast Software essential for drilling and blasting in surface and underground mining. We will also detail the underground mining surveying workshop.

We have achieved great results last year at the XIV CONEIMIN 2018 (Mining Engineering Student’s National Congress), where our team was awarded the first place in the competitions of underground mining surveying and mining walk.

Finally, as part of our contribution to Minerals Education Coalition MEC, we showed high school students who attended the vocational orientation fair at our university, the importance of mining. We had the opportunity to talk to students from different educational institutions.
PRESIDENT’S REPORT

SURICHAQUI GARCIA, RAUL KENNY

The Society for Mining Metallurgy & Exploration enabled me to experience some of the best moments that I will never forget since it helped me to develop new skills and work as a team. We learned how to improve our confidence and overcome weaknesses. Personal and academic growth was reached. I believe that in the future SME members are going to be leading professionals in the mining industry. I can assure that each SME member is continually improving, and contributing to the growth of the team. Our goal is to become successful professionals.

We are a solid chapter with many expectations, dreams, and goals to reach. Our objectives are clear and encourage us to continue moving forward. There are many people that are willing to help us by giving presentations and sharing knowledge. For this, I am very happy to be part of this great chapter that has shown and will continue showing that we are doing things right. My best wishes to all of SME members.

Cel: +51 942017722

E-mail: kennyoxaps@gmail.com - rkennysgmina@gmail.com
If we compare graduated students who were also SME members, we notice that the contribution that this student chapter is giving to the professional development of their members is priceless.

As part of the management board I think it is my duty to incorporate even more achievements, and educational events as we have been doing.

For this new period, I have in mind many plans. For instance, it has been so long since the last time the student chapter went on a field trip. I am also keen to include even more members. Our faculty is glad to host SME UNCP student chapter and we do not want to disappoint.

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TREASURER’S REPORT

CUBA INOCENTE, GERALDINE JENNIFER

Being part of SME UNCP Student Chapter was a great experience. I had the opportunity to empathize with my classmates and share information.

Thanks to the implementation of our Friday meeting program, we have been able to upgrade our knowledge. Each presentation and workshop have helped us to improve.

As the Treasurer of our Student Chapter, I learned to administer our account efficiently.
## EXPENSES (SOLES)

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<th>Description</th>
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<td></td>
<td>BANNER AD</td>
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<td></td>
<td>FLOWER ARRANGEMENT</td>
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<td><strong>TOTAL</strong></td>
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## EXPENSES

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<tr>
<td>TOTAL EN CAJA</td>
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SECRETARY’S REPORT

TOCASCA TOCASCA, ERICK GERARDO

First of all, I would like to thank the society for mining, metallurgy and exploration for giving me the opportunity to be part of this very rewarding experience. Being part of the SME has been one of the best experiences in my life. The UNCP chapter has been working hard, focusing on important points that will be useful for our professional stage.

In this report, I will expose all the fundamental points that were made in the years 2018 - 2019.

1. Every Friday there is a meeting where all future activities are coordinated, such as:
   ✓ Friday papers
   ✓ attendance at conferences
   ✓ Etc.

2. After the meetings, there are different activities:
   ✓ Engineer presentations
   ✓ Workshops
   ✓ Etc.

We also want to emphasize that the members of the SME-UNCP chapter work with concise objectives such as:

   ✓ Be one of the best chapters of the SME
   ✓ Win mining contests
   ✓ Be part of important events
   ✓ Be competitive in our professional stage

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## SME Student Chapter Members

<table>
<thead>
<tr>
<th>N°</th>
<th>APellidos y Nombres</th>
<th>Celular</th>
<th>Correo</th>
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<tr>
<td>1</td>
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<td>951639397</td>
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<td>5</td>
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<td>6</td>
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<td>8</td>
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<td>13</td>
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<td>15</td>
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<td>SURICHAQUI GARCIA, RAUL KENNY</td>
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<td>TUCASCA TUCASCA, EYRICK GERARDO</td>
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<td>YUPANQUI DAMAS, Astrid Fiorella</td>
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</table>
III CODEMIN 2018

III CONGRESO NACIONAL DE MINERÍA – HUANCAYO 2018

Universidad, empresa y sociedad
del 09 al 13 de Julio

UNCP
AMAUTAS MINEROS
SME

III CODEMIN 2018 SPONSORS
Agradece a:

Austria DuVaz S.A.C.

Auspiciador PLATA

Agradece a:

OverPrime Manufacturing

Auspiciador ORO
PROYECTOS DE INVESTIGACIÓN
Ven y demuestra de que estas hecho...

CONCURSO DE TRABAJOS TÉCNICOS INTER UNIVERSIDADES

INFORMES:
codemin2018@gmail.com
Cel: 920 463 274

UNIVERSIDAD NACIONAL DEL CENTRO DEL PERÚ
SME UNCP supported various competitions carried out within the context of the III CODEMIN 2018. Among them:

- Mining rescue
- Minerals identification
- Surveying
- Surveying presentations
- Rock drilling
- Research projects
Coaching Workshop

SME UNCP held a workshop on Soft Skills – with the help of Eng. Omar Lozano Dominguez.

Recognition of new members SME UNCP –III CODEMIN 2108
Official recognition and welcome to new members within the context of IV CODEMIN 2018
International Coach Claudia Beltran was in charge of the workshop that was given to mining engineering students from different universities:

- NATIONAL UNIVERSITY OF HUANCAVELICA
- DANIEL ALCIDES CARRIÓN NATIONAL UNIVERSITY
- NATIONAL UNIVERSITY OF THE CENTER OF PERU

The workshop was held through two days inside our university. At the end of the workshop, students received their certification granted by OMA (WORLD ORGANIZATION FOR LEARNING)
MINE RESCUE TEAM DEMONSTRATION

SME UNCP held the mining rescue competition within the context of III CODEMIN. Our university had a memorable performance due to the training of our rescue team by professionals who were glad to be part of the several events carried out this year.
The Mine Rescue Team from the National University of Centro del Perú showed their ability in underground mining rescue. The group consisted of 6 mining engineering students.

In order to perform the rescue simulation, adequate safety requirements were taken. In the picture above we can see the rescue team wearing their respective personal protective equipment.

Thanks to this initiative, our SME CHAPTER has started implementing our own Mine Rescue Team. Having done good progress, we will be able to show the activities of our team during the next CODEMIN congress.
KEYNOTE PRESENTATIONS

THE OPENING DAY OF THE III CODEMIN 2018

PRESENTATION GIVEN BY DR. ROMULO MUCHO MAMI
GRANTING A DOCTOR HONORARY DEGREE TO ENG. ROMULO MUCHO MAMANI

CLOSING CEREMONY OF II CODEMIN 2017
The closing ceremony was led by DR. Juan Cristobal Cairo Hurtado who is the Dean of the Mining Engineering Faculty. The quality of the event was highlighted by the participants, speakers, and authorities. A cultural night was held for thanking every person who contributed to the realization of III CODEMIN 2018.
The Viernes Minero program is oriented principally to debate relevant subjects from the Mining Industry. For instance:

- Mine Design and Planning
- Environmental Issues
- Ventilation Management
- Drill and Blasting
- Surveying
- Soft Skills
- Mining Software
- Project Management
MINER`S FRIDAYS

SUBJECT: MODERN SURVEYING AND ITS APPLICATION IN MINE PLANNING

SPEAKER: ENGINEER SAPAICO ALCOCER, KEVIN

VIERNES MINERO

TEMA:
SIMULACIÓN DE VENTILACIÓN DE MINAS CON EL SOFTWARE VENTSIM

EXPOSITOR:
ING. KEVIN SAPAICO ALCOCER

EXPERIENCIA LABORAL:
* Residente de la Empresa Especializada Lyt Logística Soluciones Integrales.
* Asistente de residente de la Empresa Especializada EIMAC S.R.L.
* Jefe de Guardia en CIA MINERA SAN VALENTIN.
* Expresidente SME-UNCP (2016).

*Fecha: 01/06/2018
*Hora: 8:00 a.m.
*Lugar: AULA 119 DE LA FACULTAD DE INGENIERÍA DE MINAS
SUMMARY:
- Ventilation in underground mining is fundamental to keep the work environment in good conditions for employees.
- In order to design efficiently, it is mandatory to first use a ventilation software that can show pros and cons.
- It is also important to keep in mind standards and regulation which their main intention is helping to avoid accidents.
VIERNES MINERO

SUBJECT

SPEAKER ENGINEER CASACHAGUA ROSAS, JOSE LUIS
SUMMARY:

- COLQUISIRI Mining Company has increased its total production in the last 20 years. Currently is well known as a growing company that gives revenue to investors.
- The main method used (80%) is sublevel stoping
- Adapted to be trackless and with the help of technology, COLQUISIRI Mining company ensures productivity and safety.
SUMMARY:

- Reporting on time can prevent many accidents.
- When it comes to security there is no exception, and everything must be done according to standards and procedures given by law.
- Safety Culture must be implemented for all mining units, this way accidents and incidents can be prevented.
VIERNES MINERO

SUBJECT: UNDERGROUND MINING PLANNING

SPEAKER: ENGINEER TAIPE CORDOVA, MARCO ANTONIO

PONENCIAS MAGISTRAL!!!

TEMA

PLANEAMIENTO DE MINADO SUBTERRÁNEO

EXPOSITOR:

INGENIERO DE MINAS

MARCO ANTONIO TAIPE CORDOVA

EXPERIENCIA

* HOCHSCHILD Mining
* Los Quemuales S.A.
* Southern Peaks Mining Ltd.

Apoya:

SME

Society for Mining, Metallurgy & Exploration

UNIVERSIDAD NACIONAL DEL CENTRO DEL PERÚ
Summary:

- **CONDESTABLE** is a mining unit that is using currently 3 methods: Room and Pillars, Sublevel Stoping and Shrinkage.
- Production per day is 7500 TM/DIA.
- **CONDESTABLE** shows great profitability and optimal reserves that foreshadow a great future.

**VIERNES MINERO**

<table>
<thead>
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<th>SUBJECT</th>
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<tr>
<td>SPEAKER</td>
<td>ENGINEER MUÑOZ HUAMA, MAO</td>
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SUMMARY:
- Drilling and blasting are the main activities for a mining Company. Those are great parameters for workability.
- It is important to keep an optimal P80 to ensure that Milling does not encounter any problem.
- Design and simulation comes in handy to perfectly apply a good concept for blasting.
### SUBJECT
DISPATCH FLEET MANAGEMENT SYSTEM

### SPEAKER
ENGINEER GAMARRA GARCIA, PIERO ANTONIO

---

**PONENCIA MAGISTRAL**

**Tema**
SISTEMA DISPATCH E INDICADORES DE CONTROL DE FLOTA EN MINERÍA SUPERFICIAL

**Expositor:**
INGENIERO DE MINAS
PIERO ANTONIO GAMARRA GARCIA

**Experiencia:**
COMPANÍA MINERA ANTAMINA S.A.

---

**Fecha:** 03/05/2019
**Hora:** 9:30 a.m.
**Lugar:** Auditorio de la Facultad de Ingeniería de Minas - UNCP

---

**PONENCIA MAGISTRAL DEL INGENIERO PIERO ANTONIO GAMARRA GARCIA**

FACULTAD DE INGENIERÍA DE MINAS - UNCP
SUMMARY:

- In Surface mining, it is important the fleet management in order to take actions and decisions.
- ANTAMINNA company resulted being top 1 during 2018. A former student of our university gave a presentation on the fleet management they use.
OBJECTIVES:

- To learn more about Safe and Safety
- Security system implementation
- To learn about ISO 9001 and OHSAS 18001
WORKSHOPS
WORKSHOP – VENTILATION MANAGEMENT SOFTWARE
VENTSIM
OBJECTIVES

- To manage ventilation in underground mining projects.

- To make a mining technical report, evaluating the permissible concentration of gases.

- To learn how to correlate data with other engineering software

- To give certifications to students
XIV CONEIMIN 2018

XIV NATIONAL CONGRESS OF MINING ENGINEERING STUDENTS
SECOND PLACE IN MINE PLANNING

SME – UNCP MEMBERS:
- CUBA INOCENTE, GERALDINE
- QUISPER PAUCAR, ELISA
- SURICHAQUI GARCIA, RAUL KENNY
- TOCASCA TOCASCA, ERICK

SUMMARY
- MINE planning at a conceptual level.
- Project financial study.
- CAPEX and OPEX calculation.
- Mining methods design
SUMMARY

This competition allowed students to show their Drilling skills using JACKLEG DRILL.
- The competition required three stages: an exam stage as well as simulation, the last stage was the rock drilling competition.
SUMMARY

- “HUAYLAS” is a dance that our city is well known for.
- Our performance showed that students were glad to be there among many other students from many universities.
MEC

SME - UNCP
SUMMARY:

- As a way to make people realize the importance of Green Areas, SME UNCP held the event which main purpose was to plant trees.
- Every SME UNCP member planted a tree and now they are in charge of monitoring them.
- It was a unique experience. We feel proud. In the future SME UNCP will be performing even more events like this.
ANNIVERSARY OF THE MINING ENGINEERING FACULTY
**Semana de Aniversario 47 ANIVERSARIO**

UNIVERSIDAD NACIONAL DEL CENTRO DEL PERÚ

FACULTAD DE INGENIERÍA DE MINAS

LUGAR: PARANINFO N°2 - UNCP

21 de mayo 2019

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<tr>
<td>09:00 Horas</td>
<td>RECEPCIÓN DE INVITADOS</td>
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| 09:30 Horas   | **PONENCIA DEL ING. BRAYAN RUPAY HUAMÁN.**
|               | **OPTIMIZACIÓN DEL MANTENIMIENTO DE VIAS APLICANDO POLÍMEROS PARA**
|               | **ESTABILIZACIÓN DE SUELOS C/IA MINERA ATACOCHAA S.A.A.**                |
| 10:30 Horas   | **PONENCIA DEL ING. RUBÉN AGAMA PUÑEZ.**
|               | **SEGURIDAD MINERA**                                                     |
| 11:00 Horas   | **PONENCIA DEL ING. CRISTIAN TORIBIO JURADO.**
|               | **PLANEAMIENTO DE MINADO**                                               |
| 11:30 Horas   | **ENTREGA DE COMPARTIR A LOS ASISTENTES**                                |

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Facebook: SME - UNCP Student Chapter
ENGINEER BRAYAN RUPAY HUAMAN PRESENTATION
SUMMARY:

- Road maintenance was the topic of one of our former students.
- The process that was implemented at the mine where Brayan is working has reduced costs up to 50%.
- Truck and other equipment now be used more hours due to the reduce in maintenance time.
SUMMARY:
- Another former student and member of SME UNCP who gave a presentation on the importance of Mine Planning.
- Among the main topics was dilution.
- He also talked about OPEX in productive process related to his actual work center.
SUMMARY:
- The main topic of this presentation was Health and Safety.
- “BEHAVIOR-BASED HEALTH AND SAFETY” is the main option regarding prevention of accidents and incidents.
- Peruvian Law regulation D.S. 024 – 2016 y D.S. 023 – 2017 were discussed and embraced.
CONCLUSION

- Graduated students and ex members of SME are keen to help our student chapter. Every year since the creation of the chapter in our university, professionals related to the mining industry has supported us. I can tell for sure that there is a growing effort to make the recognition of the industry and the qualification pf professionals.

- In order to keep up to date, SME UNCP student chapter is always organizing Mining Related Software lessons and workshops.

- CODEMIN is a congress held by the Mining University Faculty which SME UNCP student chapter has supported since the beginning and will continue doing it.

- CONEIMIN is a national congress of Mining Engineering Students. We thank SME because since our students gathered under the student’s chapter, we were able to seek recognition among the several competitions held during this annually congress

- MINERAL EDUCATION COALITION is also another great opportunity we as students adopted to give society support. And we are improving our processes.