

# The Reactor

Newsletter - Activities Recap 2018-I



## Introduction

The AIChE Student Chapter of the Universidad Nacional de Colombia - Sede Medellín has achieved, through hard teamwork during the period 2017-2018, to contribute in a significant way to the comprehensive and academic education of students of Chemical Engineering and Biological Engineering through various activities carefully planned that have allowed the strengthening of relations with the academic, social and industrial environment of Colombia.

This newsletter, “*The Redactor*”, summarizes the effectiveness of the work carried out by a team made up of the Board and the coordinators of the chapter time employed 2018-I, during which time the Chapter continued on the path of fulfilling the objectives stipulated in its statutes and positioning itself even more as a reference point in the country and abroad.

We are very proud of everything we’ve achieved, and the lessons learned in our period; “We did well our job” and we are sure that our successors will be even better and will take the challenge without fear, so that the AIChE Unal Med Student Chapter continues growing.



Editorial:

Presidential Words



*Carpe Diem*



Seize the day. Do not let it end  
without having grown up a bit, without being happy,  
without having risen your dreams.  
Do not forsake the yearning to make your life something  
special...

Enjoy the panic that leads you have life ahead.  
Live intensely, without mediocrity.  
Think that you are the future and facing the task with pride  
and without fear.  
Do not let life pass you, without you living it...


*-Walt Whitman-*

Reminder card 5 anniversary AIChE UNAL MED Student Chapter



## Thanks to the team work!

By:  *Mayra Alejandra Barahona – President 2017-2018*

 *Sara Duque Martínez – Vice President 2017-2018*

A year has passed, and many experiences have been shared...

Venturing to lead this chapter was a decision that today we ratified as rewarding, it was not easy and sometimes it was not joyful, but we learned a lot along the way and we managed to meet our expectations and the group's objectives. Or so we believe!

All the achievements of this year would not have been possible without our teamwork, the board and all their coordinators. We thank each of them for their integral performance, contributions, support and unconditional accompaniment. Especially to the Executive Committee for perfectly managing our new activity: "Snack with the Industry" and to brighten up our social networks with images and infographics; to the Logistics Committee for the varied activities carried out in the integrations and for giving us the opportunity to give back to the society in our other new activity "AICHe Volunteering"; to the Academic Committee for its various English Conversation Clubs and the tutorial to access AICHe security courses: "Discovering AICHe"; and to the Financial Committee because after a lot of struggle, they put into practice his strategic part and managed to obtain the much-desired income for the chapter, showing us that nothing is impossible.

From Presidency, our main objective was to organize the positions of the chapter and to define in a clear and objective way each one of its functions, with which it



was possible to do an accurate follow-up of the activities and an efficient teamwork was achieved for the aforementioned goals. Thus, we think that each one could contribute with its bit.

Being in the presidency of this organization is not simple, we must keep in mind the progress of each of the activities, delegate, and propose improvements; however, it is very valuable. Being a leader and meeting expectations is even worse, sometimes it generates dislikes due to differences of opinion, but as Rosalynn Carter, former First Lady of the United States, once mentioned, "A good leader takes people where they want to go. A great leader takes them to where they do not necessarily want to go, but they must be ", because being in the head of AIChE is being aware of many factors and seeking to achieve the goals while preserving the rest of the body.

A year has passed, and many experiences have been shared... we saw our shortcomings, we improved, and we will continue growing. We recognize the efforts of all those who make this student chapter possible and we wish successes, encouragement and patience to our successors Mario and Aura to develop this beautiful task.



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## Getting closer to the industry

This semester we were even closer to different sectors in the industry, strengthening our comprehensive and professional training as future engineers, through varied **Industrial Facility Tours** and the continuation of our **Snack with the Industry**.

The **Industrial Facility Tours** allowed us to come into contact with several production processes that put academic knowledge into practice by including tours these production plants, explanation of processes and operations. Due to the management of the Executive Committee and the support of the Mines Faculty, we had visits in the city of Medellín and its surroundings and we made the third

version of industrial Facility Tours outside our city, this time in Cali City, expanding the vision of our members on the process industry in the country.

We also continued with **Snack with the Industry**, where we had an informal meeting with a Chemical Engineer while sharing a delicious snack. This space was free and aimed to gather the whole community.

### *Industrial Facility Tours at Medellín:*

In the Metropolitan Area of the Aburrá Valley, we visited the production plants of the following companies: Noel (Cookies Company), Estra (Plastic Company), Colcafé (Coffee company), Fábrica de Licores de Antioquia (Liquor distilling company), Bimbo (food company), Cryogas (gases company) and Locería Colombiana Corona Group (Ceramics company), each one with different business lines that converge in the application of unit operations of Chemical and Process Engineering. We would especially like to thank the Professor Sergio Castañeda Ramírez for his company.





VISITA INDUSTRIAL  
 FABRICA DE LICORES DE ANTIOQUIA



VISITA INDUSTRIAL  
 CRYOGAS



### Industrial Facility Tours at Cali:

“The Branch of Heaven” was the destination of the third version of Industrial Facility Tours outside Antioquia, held in the first week of February, in which we visited some productive processes in the south of the country with the accompaniment of professor Camilo Suárez, from the Faculty of Mines.



We knew the plants of: **Química Básica Colombiana** (Chemical company), **Levapan** (Yeast company), **Ingenio Manuelita** (Sugar company), **Sucroal** (Sugar company), **Harinera del Valle** (Flavor company) and the **Wastewater Treatment Plant of Cañaveralejo**, which allowed us to know their history, processes and the economic, productive and innovative growth they have brought to the country.





Additionally, we visited the Palmira Campus of our university and enjoyed some cultural plans in Cali City and its surroundings.



VISITAS INDUSTRIALES POR FUERA DE MEDELLÍN: CALI  
UNIVERSIDAD NACIONAL DE COLOMBIA SEDE PALMIRA



VISITAS INDUSTRIALES POR FUERA DE MEDELLÍN:  
CALI



## Snack with the Industry:



ALGO CON LA INDUSTRIA  
ING. GABRIELA VALENCIA - HATCH INDISA



ALGO CON LA INDUSTRIA  
ING. DIEGO Y ANÍBAL - ENKA DE COLOMBIA



During the first half of 2018 we had two *Snack with the Industry*, in which we had an open dialogue with engineers while enjoying a delicious snack.

Chemical engineer and agro-industrial engineer Gabriela Valencia, a graduate of the Bolivarian Pontifical University (UPB) who works as project engineer from **Hatch Indisa**, attended our university and shared a pleasant time with approximately 40 students.

On the other hand, engineers Diego Trujillo and Aníbal Celis, representatives of **Enka of Colombia**, visited us. They introduced us to the company and showed us how we can create a better world from the practice of engineering.



## English Conversation Club & Sister Chapter

We continue to energize the English Conversation Club with different topics, maintaining the objective of providing a space for us to practice English through interesting discussions. This semester we did three: the first was on March 21 (Job Interview), the second was on April 10 (Travel Tips and Tricks) in company with our sister chapter and the last was on May 31 (Games Afternoon). All the events were well attended by our members and the university community in general.

*English*

• CONVERSATION CLUB •



ENGLISH CONVERSATION CLUB  
WITH OUR SISTER CHAPTER



The second conversation club had the participation of our **Sister Chapter: AICHE @ University of Michigan** through a video call, with which we interacted extensively.

It is very fun and interesting to be able to share our activities with them, and

especially in such a close way. In addition, we made the video *Learning ChemE in Spanish*, which gave our colleagues at the University of Michigan a different perspective on chemical engineering by learning a few words related to it in Spanish.



## We're still learning

This semester the Academic Committee developed 2 **Research Groups Talk** to the Faculty of Mines and the Faculty of Sciences, 2 **Certified Workshops** and the first **Biological Engineering Talks**. In addition, we made the first video of the *Discovering AICHE Web* series, which aims to teach our members how to use the AICHE platform to access the free courses it offers.



### Workshop Processes with solids

The chemical engineer of the University of Antioquia, management specialist and retired professor of the Faculty of Mines **Gabriel Hernán Uribe Restrepo** was in charge of the Workshop on Processes with Solids on May 18 and 19, in which we discussed the properties, operations, current panorama and perspectives of this type of process.

### Workshop: Process safety and chemical risk

The mechanical engineer and project engineer Juliana Ocampo Salgado and chemical engineer Mateo Jaramillo, from Hatch Indisa, was in charge of the Chemical Safety and Risk Workshop, which had an intensity of 10 hours and was held in June. We deal with theory, pillars, legislation, norms and main methodologies applied in Colombia for the safety, prevention and management of possible risk scenarios associated with the processes of the different chemical industries.



## Biological Engineering Talks



The Biological Engineering Talks are a new activity that we develop so that our members, especially those involved with Biological Engineering, are updated about their career and about everything that it offers them, through a professional conversation on a specific topic.

On April 21, we held the first edition of Biological Engineering Talks, an informal activity that allowed the members of the chapter, and especially the academic community of Biological Engineering, to have a vision of the work and research panorama of this program based on the experience of several engineers belonging to different labour sectors, while we enjoyed a coffee and a delicious snack.



## Procesa 2018

**PR**  **CESA** **2018**

Our flagship event: PROCESA moved in its sixth version to the city of **Barranquilla** during the week of April 9-14. The AICHE chapter of the Universidad del Atlántico was in charge of directing the VI Technical Conference, which had the following thematic axes: **Biotechnology, Food Engineering, Economic Engineering** and **Project**



**Management.** During the event, the regional **Chem-E-Car** and **Jeopardy** competitions were held, which are governed by the guidelines of the American Institute of Chemical Engineers (AIChE). Our chapter (and our university) was represented in both competitions, **achieving first place in the Jeopardy**, which allows the team to represent us in the international competition that will be held at *Annual Student Conference 2018* in Pittsburgh, Pennsylvania, USA.



## Volunteering AIChE



We continue our social commitment by encouraging our members to share and support the work of other organizations whose goal is to help people in special situations. This semester we did our third volunteer work: on March 25th we accompanied the **Chocolate pa'l compa de la calle Foundation** to carry out recreational activities and give snacks to the children of the Niquitao sector in the city of Medellín.



## We also have fun



We continue to strengthen the relationships of our **AICHE Family** with the help of the Logistics and Welfare Committee, which promotes spaces for leisure, fun and interaction outside the classrooms.

This semester we did **3 social activities**: on February 23rd we had a day of crossing to the Tres Cruces Hill, on March 31st we had the Happy Easter Integration and on April 27th we had an afternoon of Dance Hall. In all these activities we enjoyed and passed a group time, giving even greater meaning to our #AICHEfamily.

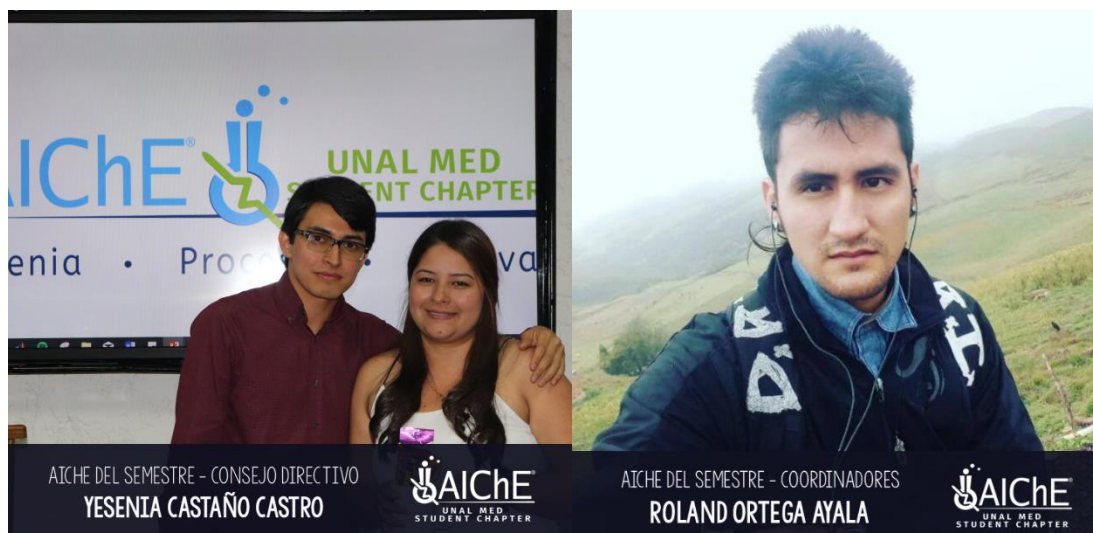


## AICHE of Semester

In recognition of their proactivity and dedication in fulfilling their commitments to the Chapter, and for standing out among the members during the 2018 - I semester, **Yesenia Castaño** and **Ronald Ortega** were elected as the AICHE of the semester in the categories Board of Directors and Coordinators, respectively.

**Yesenia** is the Academic Deputy Officer and was very active and diligent throughout the semester, especially in the organization of the certified Processes with Solids and Process Safety and Chemical Risk workshops. On the other hand, **Ronald** supported and proposed activities for the Academic Committee, which were carried out successfully, and had an active participation in the different events carried out by the chapter.





## Anniversary # 5: Growing Up

Five years have passed since the foundation of the AIChE Unal Med Student Chapter, a time in which we have had continuous training, growth, learning, struggles, mistakes and successes that praise us, as we have managed to consolidate a representative organization in our academic community, both at our country and abroad.



For all of these reasons, during the 2018-I semester, based on publications on social networks, face-to-face activities and physical advertising, we remember the achievements of these five years with the aim of communicate the results, recorded in a special section of our website, of the excellent work carried out by the members who have belonged to our chapter. In addition, we use the hashtag **#AIChEGrowingUp**, which

reflects what we are and what we will be: People who give their best to keep learning and to make their community a little better place.





Triumphs must be shared! On June 9 at 6:00 p.m. at the "Las Mercedes" building in the Faculty of Mines we held the official celebration of this anniversary which fills us with joy. We shared with the current members of the Chapter, the founding members and the professor who have accompanied us on this journey, who, amidst reunions, memories and laughter, enjoyed dinner and live music. In addition, we presented the positions to the **2018-2019 Board of the Chapter** and recognized the members of the outgoing Board of Directors. We also rewarded the AICHe's of the semester and shared the congratulatory messages of other chapters and others who were unable to join us in the celebration.



## Epilogue

### New name for the Newsletter: The Redactor

At the beginning of the 2017, a contest was organized through Facebook to select the name and logo of the newsletter, which aims to share the activities and achievements made during the semester by the chapter. This bulletin has a biannual periodicity and the presidential words are included annually due to the end of the period.

The winning proposal was "The Redactor", prepared by the student of Chemical Engineering (CE) Aura Ramírez (pictured). This was selected by the Board of the chapter for the same reason that she comments: "The Re-d-actor is an intersection of the CE with the literature" because Re-d-actor represents the union between the words: Reactor and Redactor. Thus, with its selection, the Board recognized Aura for her cleverness in the preparation of this approach.



Currently, Aura is doing the fourth semester of Chemical Engineering, and during the 2017-2018 period she worked in the chapter as Secretary. In addition, she is the elected Academic Director for the 2018-2019 period.

# The Re-actor

For its part, the logo designed for "The Re-d-actor" was made by Sara Duque, Vice President 2017-2018, with the collaboration of Mayra Bejarano, President 2017-2018, and graphically seeks to integrate the word

Reactor, using elements such as an agitator to represent the "d" and a bubble for the "o".

The Board of Directors acknowledge all those who dared to participate in the contest for their time and dedication in the preparation of their proposed ideas.



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2018