

2023 ANNUAL REPORT

MATERIAL ADVANTAGE



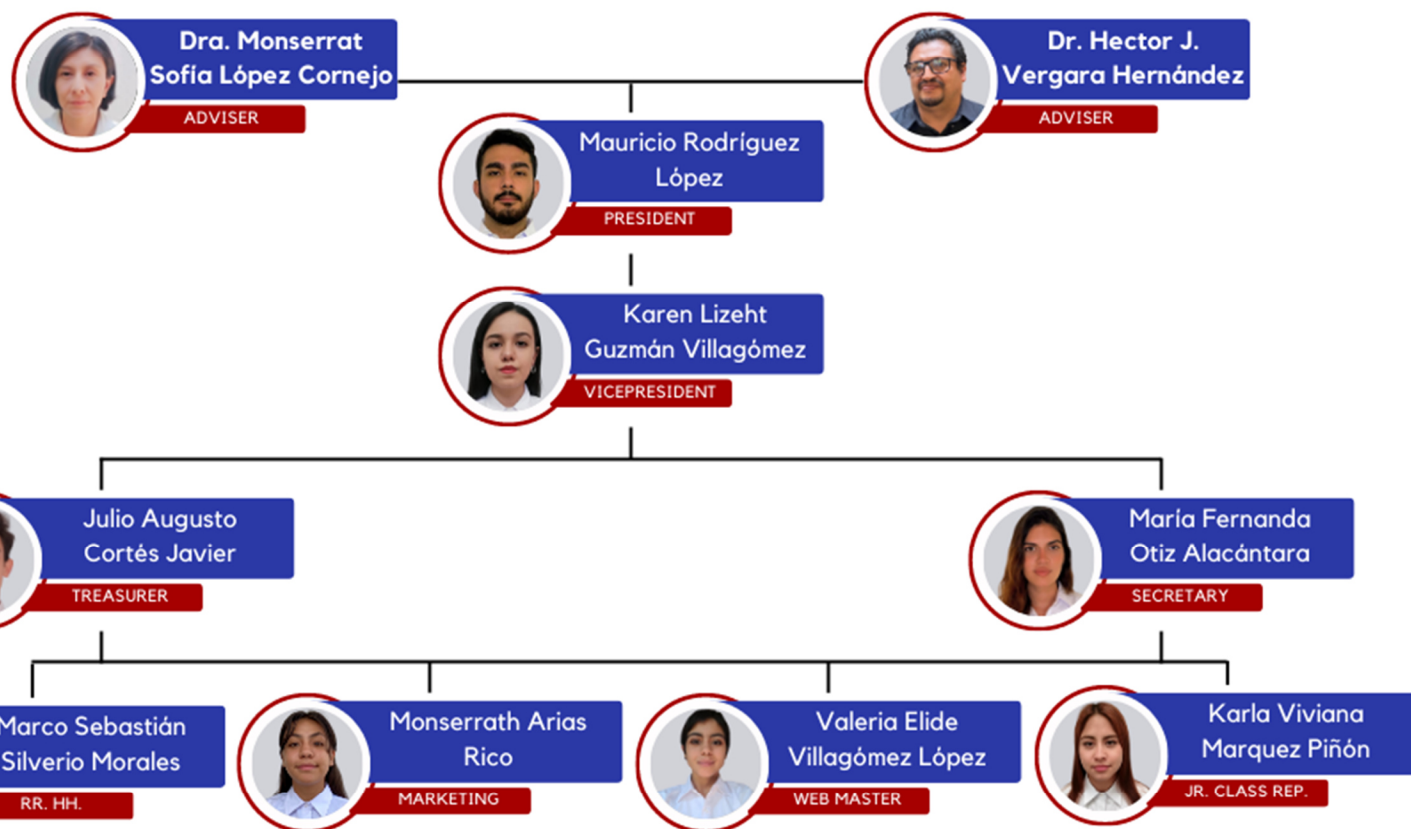
AIST- ITM STUDENT CHAPTER



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EXECUTIVE BOARD OF DIRECTORS



CHAPTER'S OVERVIEW

AIST-ITM Student Chapter was recognized for Material Advantage Student Program in 2018, established to promote activities related to Material Sciences and Engineering at Instituto Tecnológico de Morelia (ITM). Since 2019, AIST-ITM Student Chapter is the student chapter with the highest number of members in Mexico, adding up to 151 members by 2023.

MISSION

Carry out activities that promote the development of the skills and aptitudes of the members, related to materials engineering, and focused on the steel and metallurgy. As well as contributing to improve the educational level within the institution and create an environment of trust among those who are part of the chapter.

VISION

We are aiming to become the bridge between the members and the industrial sector in the country, providing them a full view of the possibilities within a professional career in Material Science and Engineering

TOP RECORDS

- 3rd consecutive year of being awarded as Chapter of Excellence by Material Advantage Student Program (2020, 2021 and 2022).
- 115 students received Steel to Students scholarship, sponsored by AIST to attend The Making, Shaping and Treating of Steel 101 seminar, Modern Electric Furnace Steelmaking – A Practical Training Seminar, ExpoAcero 2022 and CONAC 2023.
- 6 Steel Intern Scholarships sponsored by AIST Foundation were granted to AIST-ITM members at 2023. This is the fourth year in a row that students from our Institute obtain this scholarship.
- We held from April 25-27, the 6th Iron and Steel Colloquium, gathering more than 250 attendees per day in a 3-day event. We gathered the next companies: RHI Magnesita, Nucor JFE Steel Mexico, ArcelorMittal, Ternium, Gerdau Corsa, AMI, Primetals, DeAcero, General Electric, and Danfoss.
- Valeria Villagomez, AIST ITM Treasurer won the Recruit a Member Challenge 2023, sponsored by Material Advantage.
- Fall 2022 Membership Challenge Winners, with Most Students Recruited, a 40.2% growth.
- 5 teams from ITM won from 1st to 5th places in the Real Steel Video Contest sponsored by AIST Foundation.

- Denise Torres and Frida Sofía Ponce de León were selected for ASM International and FAS Student Boards, respectively.
- Luis Eduardo Flores, Rodolfo Ramirez and Monserrat Torres, AIST ITM members were chosen as delegates for the ACerS President's Council of Student Advisors.
- Maria Isabel Bucio Herrejón won the second place in in the Undergraduate Student Project Presentation Contest at AISTech 2023.

STATISTICS

With the objective of providing our members with the best experiences from which they can learn and grow, the Student Section of AIST-ITM has developed multiple activities.

- Membership continues with +150 active members
- +20 executive board meetings were held
- 13 informative meetings/outreach events with students took place
- 9 professional development events were held
- 15 technical/educational events were organized
- 7 plant tours
- 9 social events were organized



CALENDAR OF EVENTS

JUNE 2022

- Visita DeAcero, Nitrex, Crio

AUGUST 2022

- ExpoAcero 2022
- Swearing in ceremony for Board of Directors

SEPTEMBER 2022

- Domesday Participation 2022
- How to? Resume and LinkedIn seminar
- Ternium Mexico Talk
- How to? win a scholarship to work on the industry
- How to? win an international contest
- Promotional talks

OCTOBER 2022

- MS&T 2022
- Excel course
- Materials Engineering Introduction course
- Promotional video: Parallel lives
- Grand premiere
- Recruit and win dynamic
- Metallurgic Halloween

NOVEMBER 2022

- Micrography interpretation for steels
- Plant Tour for Jr Class (Fundidora Morelia)
- Nanotechnology through film thin synthesis webinar

- First aid course

DECEMBER 2022

- Plant Tour to Arcelor Mittal
- ITM'S Steel Interns 2023
- Real Steel Video Contest
- MA Chapter of Excellence Seminar
- ASM Board Member Programs ITM

FEBRUARY 2023

- Swearing in ceremony for Board of Directors.
- Plant tour to Gerdau Corsa
- Modern Electric Furnace Steelmaking, Practical Training Seminar

MARCH 2023

- The Making, shaping and treating of steel 101 Seminar
- TMS 2023
- CONAC 2023 and AMI Plant Tour
- Pony orienta 2023

APRIL 2023

- COHIAC 2023 and 3rd Metallurgical Rally

MAY 2023

- CAPES 2023
- AISTECH 2023

CHAPTER MANAGEMENT

Management procedures.

General structure of the executive board is guided by the following hierarchy:

President. Leads executive and general meetings, manages activities along with Vice-president, supervises the MA annual report, propose and create committees, handles problems between board members or members, signs documents with the adviser, attends weekly meetings.

Vice-president. Assumes all president's responsibilities in case of absence, leads executive and general meetings, manages activities along with president, supervises the MA annual report, propose and create committees, maintains relationships with faculties, sponsors, and important personnel, Assists and coordinates member recruitment and retention activities, looks for sponsorships as well as networking opportunities, attends weekly meetings.

Treasurer. Creates and leads fundraising activities for the chapter, gives weekly follow- up to the scholarships offered by MA associations and informs the board of directors of delivery times and required documentation, collects membership payments and fill out the necessary registration forms, follows up payments to the chapter related to prizes or payments and fill out the forms for reimbursements, tracks renewals, keeps the list of active members updated, attends weekly meetings.

Secretary. Documents all meetings, takes the assistance of the members of the board of directors in meetings, gathers and edits information for the annual report, takes evidence of all the events organized by the chapter, creates, and leads social and volunteer activities. prepares diplomas for the different events, delivers paperwork and processes required permits with the institution, attends all board meetings.

Human Resources. Recruits members for chapter activities, tracks chapter member participation in activities throughout the year along with Marketing and reports at board meetings, collects and updates contact information for active members as well as recent graduates, reviews weekly programs and events offered by the various MA associations and communicates them to the board, attends all board meetings, attends member recruitment and retention activities, and contacts instructors for courses or speakers for short talks.

Marketing. Creates flyers and advertising for events, conducts a satisfaction survey after each event and presents it at the board meeting, conducts surveys to find out about activities proposed by members of the chapter, collaborates with webmaster to design dissemination strategies, attends all board meetings.

Webmaster. Publishes chapter announcements on social media, receives the messages from the different platforms and channels, them to the corresponding department, periodically reports the performance, scope and impact of the chapter's social networks, collaborates with Marketing to design dissemination strategies, attends all board meetings.

Jr. Class Rep. Develops induction and orientation activities for the first semesters, proposes recruitment strategies for the first semesters, it's in constant attention to the doubts and/or needs of youngest members, attends all board meetings.

BOARD MEMBERS RECRUITMENT

Board members are carefully selected from the membership through a multiple step process. All candidates must fill out a google form with their personal data; a motivation essay and a photograph must be submitted. The documents provided are scored by the board members this year, three different activities were implemented in which skills such as teamwork, leadership and initiative were graded. Following this process, interviews are conducted by the advisors. The scores are summed up and the best candidates are selected. and the best candidates are selected. Once the selection process is completed a brief training is given to the new members explaining the general procedures, what is expected of them and how their performance will be evaluated and how their performance will be rated.

BOARD OF DIRECTORS SWEARING-IN

In order to make official the change between boards a virtual meeting is conducted with AIST Mexico Chapter's Operative Director, where the executive board is presented, along with their responsibilities, and goals to achieve during the semester. Following the University's protocol, a swearing-in ceremony is organized, where the board is presented to university community.



ORGANIZATION

Meetings: Executive meetings were held weekly, led by the president and vice-president. The executive board discussed upcoming events, decisions were made, tasks were assigned. A draft of agreements was made after every meeting, by secretary.

- Record keeping: All official documents are uploaded to google drive, such as Chapter's Roster, important documents, photos, etc.
- Banking: Bank account is managed by the treasurer, every purchase must be approved by the faculty advisor, president and treasurer.
- Communication with members: Chapter's Official social media is always open to interaction. Executive board's main communication with members is through a Whats App group by the Chapter's official Whats App Business account.
- To do: a new form of organization has been adapted with the To Do application which allows us to direct responsibilities to board members and to mark them as completed at the end of their work.

SOCIAL MEDIA

- Facebook: <https://www.facebook.com/aistitm>
- Instagram: <https://www.instagram.com/aist.itm/>
- YouTube: <https://www.youtube.com/@aistitm1862>
- LinkedIn: <https://www.linkedin.com/in/aist-itm-capitulo-estudiantil/>
- Email: aist.mex.itm@gmail.com

PARTICIPATION IN EVENTS (MA)

- AISTech 2022 and 2023
- IMAT 2022
- MS&T 2022
- TMS 2023
- Expo Acero 2022
- CONAC 2023



TECHNICAL PROGRAMMING

NITREX AND DEACERO PLANT TOUR

On June 18 and 19, 2022, 18 students attended 3 plant tours: Crio and Nitrex at Queretaro, companies related to heat treatments in automotive parts. The 2nd day the students attended DeAcero Plant at Celaya, Guanajuato, where we had the opportunity to be introduced to the EAF, Ladle Metallurgy, Continuous Casting and Hot Rolling for Long Products Processes. This visit fulfilled the main objective, which was to generate interest in the students to work in the steel industry and, in turn, learn about the different labor fields in which they can develop.



EXPO ACERO 2022

49 students from ITM attended ExpoAcero 2022 organized by AIST Chapter Mexico from August 29 to 31, 2022 at Queretaro, Queretaro. Two graduated students from ITM presented their research work in this congress aimed at specialists in the Metal-Mechanical Industry and attended the Galvanizing and Cold Sheet Rolling Technology Committee Meeting for 2022. Students from Materials and Mechatronics Engineering were part of the Steel to Students Program sponsored by AIST Foundation.



DOMESDAY PARTICIPATION AT IMAT 2022

Gladys Durán Durán, Leonardo Orozco Soria and Aurora Durán Gil, members of the AIST ITM Student Chapter participated in the Geodesic Dome contest (DomesDay 2022 Competition), organized by ASM International in Louisiana, United States. The team won the award for Best Design and Presentation in the Design of a Geodesic



Dome. The competition took place on September 2022 in the city of New Orleans, where North American universities and only one Latin American institution participated, which was represented by the Tecnológico Nacional de México in Morelia. The team advised by Dr. Monserrat Sofía López Cornejo exposed their dome to tests that resisted 210 pounds of force (935 N), which allowed them to win one of the three prizes awarded.

MS&T 2022

Mauricio Rodríguez López, AIST ITM President attended MS&T 2022 at Pittsburgh, PA, last October 2022. He participated in the University-Industry Relations Roundtable organized by AIST Foundation where Mauricio shared with the attendees his experience as Steel Intern in Ternium Mexico and received his plaque as an awardee. He also attended the Chapter Officer Workshop organized by Material Advantage Student Program.



Victor Ronaldo Gaytan Calderón, graduated student from Metallurgy Department attended MS&T as speaker with the paper Obtaining a Dual-Phase Steel by Hot Rolling from a Chemically Modified Commercial Steel.

EXCEL COURSE

The student chapter organized a excel course to introduce the students in macros and dynamic tables. The instructor was the Professor Omar Aguilar, in a 10 hours course from October 17 to 21, 2022. We gathered 35 students from Materials Engineer career.

MICROGRAPHY INTERPRETATION FOR STEELS

Micrography interpretation for steels online course was 6 hours course, imparted by Marco Eduardo Ponce Becerra, currently graduate student. In the first class (November 14th) there was a general approach for metallographic characterization and in class two and three (November 15th and 16th) we learned micrography interpretation of different steel grades. In Microsoft Teams platform we gathered 25 attendees.

PLANT TOUR FOR JUNIOR CLASS

We organized a plant tour on November 24, 2022, to Fundidora Morelia, a local foundry. Sophomore and junior students attended this visit that included transportation and a lunch at the end of the visit. The 15 students that participated had the opportunity to understand the foundry process, how the plant operates and get a more extensive overview of what is involved in the steel industry.



NANOTECHNOLOGY THROUGH THIN FILM SYNTHESIS WEBMINAR

On November 29th, 2022 we held the webinar "Nanotechnology through thin film synthesis" by Dr. Hilda E. Esparza Ponce from the Centro de Investigación en Materiales Avanzados S.C. That webinar was attended by 20 students from the Instituto Tecnológico de Morelia. Throughout this talk, topics related to the CIMAV facilities were discussed, as well as professional internship and postgraduate opportunities for interested students, the central topic was thin filmsynthesis methods, from the basic concepts, methodologies, and expected results.

PLANT TOUR TO ARCELORMITTAL LÁZARO CÁRDENAS.

From December 15 to 16, 2022, we visited ArcelorMittal Lázaro Cárdenas with the aim to motivate and give an approach to our members about the steel industries and how we are involved as future



professional engineers in iron and steel industry. We visited BOF plant and the Hot Rolling Mill for Long and Flat Products, we learned about the different production processes, as well as the different products they manufacture, with the necessary technology to manufacture a huge range of ultra-low carbon steels, micro-alloy steel, high carbon steel, sour gas resistant steel, among others. 29 senior students attended this plant tour.

PLANT TOUR TO GERDAU CORSA

On February 16th, 2022, 18 junior and senior students from Materials Engineering department attended the Gerdau Corsa plant tour in Cd. Sahagun, Hidalgo. The students had the opportunity to be introduced to the next processes: EAF, Ladle Metallurgy, Continuous Casting and Hot Rolling for Long Products. The students had the opportunity to learn about the G Start Program from Gerdau Corsa, and the opportunities for internships.



MODERN ELECTRIC FURNACE STEELMAKING - A PRACTICAL TRAINING SEMINAR

Karla Orozco Luviano, Yadira Yaimara Martínez López and Mario Herrera Ortega, students from ITM and AIST ITM members received the support of Steel to Students Program to attend Modern Electric Furnace Steelmaking - A Practical Training Seminar international course, which took place from February 20 to 24 in the city of San Antonio, Texas. The students attended a plant tour of CMC Steel Texas that took place on Wednesday, 22 February 2023.

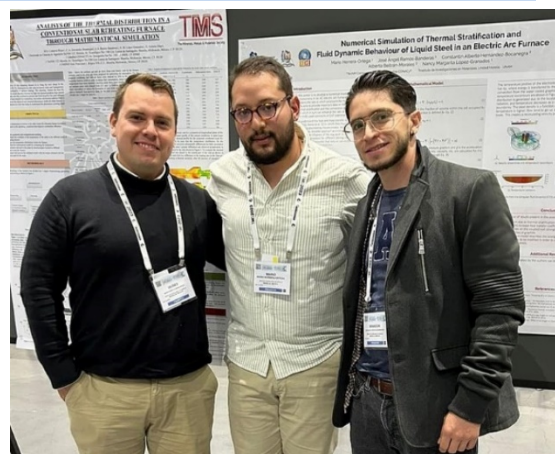
THE MAKING, SHAPING AND TREATING OF STEEL 101

Isabel Bucio and Sergio Morales, students of the Technological Institute of Morelia for having attended the course The Making, Shaping and Treating of Steel, which took place on March 21 and 22, in the city of Indianapolis. Isabel and Sergio attended a plant tour of Nucor Steel-Indiana that took place on Tuesday, 21 March 2023.



TMS 2023

Engineering Sciences PhD students, Mario Ulises Calderón Rojas, Brandon Farrera Buenrostro and Mario Herrera Ortega participated in the Poster exhibition at TMS 2023 Annual Meeting & Exhibition that took place in the city of San Diego CA, from March 19 to 23, 2023. The 3 graduated students, who are members of the Chapter, presented the results of their research work to professors, students and professionals from all over the world.



CONAC 2023

We attended CONAC 2023 in the city of Monterrey, Nuevo León, this event was held from March 13 to 15, 2023, where 62 students from the Instituto Tecnológico de Morelia were able to travel, breaking a record number of attendees for the institution, who were granted a scholarship by AIST with the Steel to Students scholarship, fully covering their expenses. In this great event the students had the opportunity to meet important companies from the steel industry, attend courses and conferences (such as rolling, steelmaking, processing, and maintenance), and make contacts with people from this industry. Some of the students were involved as staff members from the event.



AMI PLANT TOUR

Related to CONAC 2023 activities at Monterrey in March 2022, 8 members of the AIST ITM Board of Directors as well as the Steel Intern Scholars 2023 had the opportunity to be part of a plant tour in the company AMI AUTOMATION, where in addition to knowing the different sectors in which



they develop their activities, and how AMI offers work-life balance for their employees and collaborators, it was also possible to gather in a much more relaxed environment, which helped attendees to see both sides of the industry.

SIXTH IRON AND STEEL COLLOQUIUM

The Sixth Iron and Steel Colloquium (COHIAC) was held on April 25, 26 and 27, 2023 at the Heber Soto Fierro Auditorium of the Instituto Tecnológico de Morelia, this is an event organized by AIST-ITM Student Chapter with the aim of providing new knowledge and opportunities for students of different careers of the institution (Materials Engineering, Mechatronics and Mechanics mainly). This year more than 250 students from both the Instituto Tecnológico de Morelia and the Universidad de Querétaro participated in the event. The event was attended by speakers from the main companies in the steel industry in Mexico such as: Ternium Mexico, ArcelorMittal, Nucor JFE Steel Mexico, Primetals, AMI, General Electric, DEACERO, Gerdau Corsa, RHI Magnesita and Lule & Lowry Steel Process Consultants. With their participation, we were able to offer a highly enriching event in various topics that are of great interest to future engineers.



AISTECH 2023

Maria Isabel Bucio, a senior student from Materials Engineering participated in the Undergraduate Student Project Presentation Contest at AISTech 2023, on Monday, 8 May 2022, winning 2nd Place with the paper titled Relationship Between Cooling Conditions for a Hypo-Eutectoid Steel and Transformation Temperatures. Dr. Monserrat Sofía López Cornejo, AIST ITM Adviser, participated as a speaker at the Metallurgy – Processing,



Products & Applications Technology Committee's session on Monday, 8 May 2022. Her presentation was entitled Effect of Cr and cooling rates in hypoeutectoid steels under forced-convection conditions. Dr. Monserrat was also part of the University-Industry Relations Roundtable organized by AIST Foundation and held at AISTech 2023 and Women in Steel RoundTable.

CAREER DEVELOPMENT

TERNIUM MEXICO TALK

On September 6, 2022, in collaboration with Human Resources team from Ternium Mexico, around 100 senior-year students from the Metal-Mechanical Engineering department had the opportunity to have a direct chat with professionals from this company, solved some of their concerns regarding the steel industry and learn about professional career programs and internships. This 2-hour talk had a great interest among the students.



HOW TO... MAKE A RESUME AND AN EFFECTIVE LINKEDIN.

The course was held with the aim of training, guide, help and support students of different grades, to prepare a good CV and the companies in which they are interested, take them into account when they are recruiting, and information to have an effective LinkedIn and impact interview. The course consisted of two sessions, September 13th and 14th, 2022. We gathered 18 attendees per session and the speaker was AIST ITM Adviser Monserrat Sofía López Cornejo.

HOW TO...WIN A SCHOLARSHIP TO WORK IN THE INDUSTRY.

How to? It is a dynamic where we share with our members to perform different extracurricular activities with speakers who have knowledge of the subject. On September 21, 2022, Agueda Garnica and Mauricio Rodríguez, Steel Interns from 2022, shared with 60 students from ITM (junior and senior students from Materials Engineering career) the requirements to submit the Steel Intern application, the advantages, and their valuable industry experience at Ternium Mexico.

HOW TO...WIN REAL STEEL VIDEO CONTEST

Also on September 21, 2022, the student team that won 2nd Place in the Real Steel Video Contest 2022 shared with 20 students how this contest challenges students to research the steel industry and produce a three-minute original video that helps to brand the industry as a potential career field. The winner team shares some tips in order to produce a qualified video in an hour talk. They explained their skills and how they approached them to achieve the goal of winning first place. Having different people share their experiences helps to motivate and inspire future participants.



ITM'S STEEL INTERNS 2023

From the 40 scholarships awarded by AIST Foundation in 2023, ITM obtained 6 beneficiaries, the largest number for a university this year. Monserrat Torres Sierra, Valeria Elide Villagomez Lopez, Jesus Campuzano Chamonica, Bryan Oliver Hernandez Ortiz, Gabriel Magaña Rendon and Jorge Tapia Juarez, who also received an honorable mention (Willy Korf Memorial), will be part of Ternium Mexico as Steel Intern Scholars and will receive a paid summer internship followed by a US\$7,500 scholarship. This is the fourth year in a row that students from our Institute obtain this scholarship.



REAL STEEL VIDEO CONTEST.

15 students in 5 different teams from the AIST-ITM Student Chapter won the AIST Real Steel Video Contest 2023. In this contest, each team had to create a three-minute video with topics such as sustainability in the processes, uses, and treatments of steel. Also, an interview with a recent graduate who works in the industry; and discusses how technologies are incorporated to achieve green steel. The new age of steel was the winner of the 1st place.



MATERIAL ADVANTAGE CHAPTER OF EXCELLENCE SEMINAR.

Organized by Wuhan University of Technology, on December 12th, 2022. Mauricio Rodríguez López, as Student Chapter President for August-December 2023, attended this on-line seminar with the aim to be part of an international academic network and to exchange ideas about team building of students in materials science and engineering. University of North Texas, Missouri University of Science and Technology, Colorado School of Mines, Indian Institute of Technology were also part of this event, invited by the Wuhan Student Chapter.



ASM STUDENT BOARD MEMBER PROGRAMS AT ITM

Denise Torres and Frida Sofía Ponce de León were selected for ASM International and FAS Student Boards, respectively and invited to participate in IMAT 2023 at Detroit, Michigan, next fall, due to her leadership and great knowledge in Materials field.

Luis Eduardo Flores, Rodolfo Ramirez and Monserrat Torres, AIST ITM

members were chosen as delegates for the ACeS President's Council of Student Advisors.

SERVICE

PROMOTIONAL TALKS TO MATERIALS ENGINEERING, MECHATRONICS AND MECHANICS CAREERS.

The AIST-ITM chapter held 8 promotional talks to different semesters in the Instituto Tecnológico de Morelia. In these talks the attendees were provided with information about AIST-ITM activities, Material Advantage Student Program and all the courses, extracurricular activities, scholarships and contests in which members can participate, among some other topics of interest. We focused in Materials Engineering, but also other degrees such as Mechatronics Engineering and Mechanical Engineering to be part of the chapter.



MATERIALS ENGINEERING INTRODUCTION

The purpose of the activity is to increase the interest of new students to continue studying the degree until it is completed, giving them the satisfaction of having chosen one of the best degrees for their training, as well as being able to explain all the advantages and points in favor that it has being a materials engineer. Two graduate students from our Institute and our AIST ITM Advisor shared their experience with freshmen students in a 2-hour talk for two weeks.



FIRST AID COURSE.

On 23 November, 2022, we organized a first aid seminar for all students from Materials Engineering Department. 20 students attended our invitation in 2 sessions to learn how to respond to specific situations, which will help you care for people in crisis as they wait for medical professionals to arrive.



SOCIAL ACTIVITIES

PROMOTIONAL VIDEO: "PARALLEL LIVES"

In order to reach out more members was the recording and publication of a promotional video, which was titled "Parallel lives". The video told the story of two students, as a member of the AIST-ITM Student Chapter and a non-member. Their story is told in two different shots, where the same scene is shot differentiated by the inclusion of the AIST-ITM Student Chapter activities. We participated with this video in the Fall Membership Challenge by Material Advantage Student Program.



GRAND PREMIERE.

To promote video, a premiere of the video was arranged, this premier included a contest with the objective of increasing the number of views of the video. The video was published on October 5 at 16:00 hours, during a deadline of 24 hours members who appeared on the video were tagged. After those 24 hours, a raffle was made, and finally two prizes were given, two coffee cups for the most tagged member and the member with the most tags made.



"RECRUIT AND WIN" RECRUITMENT DYNAMIC.

October was the date destined for this challenge; this time the contestants had to work over several weeks to recruit as many new members for the chapter, organized by teams competing for the great prize that was a full reimbursement of a year's MA membership for the team leader, followed by a 50% and 25% reimbursement for the rest of the members from the winning team.

METALLURGIC HALLOWEEN 2022

A party was planned the 21st of October of 2022. The intention of this event was the celebration of the chapter of excellence award achieved by the AIST-ITM Student Chapter, award granted by Material Advantage that recognizes the Student Chapters whose work encourages and assists students pursuing a career in the steel industry through activities, courses, industrial visits and conferences. The celebration had a Halloween theme, with a special twist of making it metallurgic related, to encourage the attendants and guests to disguise the most creative way involving the metallurgic and steel industries. We offered pizza, snacks and soda considering the support by AIST Foundation for "Pizza Grants".



3rd METALLURGICAL RALLY

The "Metallurgical Rally 3" was a competition that was part of the program of "COHIAC 2023", was a knowledge competition in topics like steelmaking processes, iron, and steel and basics, sciences and engineering. Competition was proposed for 4 teams, The questions were projected on screens, being visible to all competitors, as well as general public. Finally, awarding of the three winning teams took place on April 27, 2022, at closing ceremony of "COHIAC 2023" event, winner teams were awarded by president and vice-president of the AIST-ITM Student Chapter.



K-12 ACTIVITIES

PonyOrienta 2023, Career Fair at ITM

The AIST-ITM student chapter was part of an activity of the Instituto Tecnológico de Morelia institution where together we presented the importance of materials engineering, motivating future generations to be part of the change. There were tours of the laboratories, where we have an exhibition area and a foundry laboratory. This activity had

more than 100 high schoolers who are possible candidates to be college students.

High School and Elementary School Visits

50 students from a technical high school in Morelia attended CETIS's Career Fair, where AIST ITM Student Chapter members share the twists and turns of the materials engineering career. Also, we attended a local elementary school science fair, where we had the chance to show kids ranging from 4 to 12 years old the wonders of the minerals, the rock cycle, and the relationship between the processing and the properties of metals. At ITM we held a career fair, where 150 students from high school showed up to our stand.



CAPES 2023

On May 2 and 3, 2023, the AIST-ITM student chapter worked together with other chapters of the Instituto Tecnológico de Morelia, presenting the activities we offer and how much we can enhance their curriculum when they want to go to the industry. The event had 2 days of activities in order to recruit students from different areas such as: Systems, Electrical, Mechatronics, Mechanics, Robotics, among others, and with the participation of 100 students. Within the framework of the activities, we have a conference room where we present all the benefits of being part of a Material Advantage chapter. Motivating students to be part of a student chapter before finishing their university studies.





Morelia, Michoacán, México.

May 29, 2023

Reference Letter

To whom it may concern,

As Advisor to the Material Advantage Student Chapter at the Instituto Tecnológico de Morelia, it is a pleasure to give my support to AIST ITM Student Chapter to be evaluated as Most Outstanding Chapter.

This year, the main goal for the student board was to enroll more students in the chapter and participate in events related to the Material Advantage Student Program, as well to organize the annual iron and steel colloquium and plant tours to steel industries. They began the academic year with a CV workshop to create a successful resume and improve their networking through LinkedIn, and the Steel Interns 2022 awardees share with the community the programs that AIST Foundation offers to the students. To improve their hard skills, the student chapter organized training seminars and AIST-ITM members have participated in programs organized by AIST, ASM, ACerS and TMS, the following stand out: MS&T 2022, IMAT 2022, TMS 2023, AISTech 2023, Steel to Student Program, Intern Scholarship with 6 students awarded from Instituto Tecnológico de Morelia, and winning for the fourth time Recruit a member Challenge sponsored by Material Advantage and Real Steel Video Contest for third time, sponsored by AIST. It is important to point out that for 2023, we have 3 delegates for the ACerS President's Council of Student Advisors from our Institute, and 3 students that are part of the Student Board for ASM International, Failure Analysis Society and International Micrography Society respectively.

For sixth consecutive year, the AIST-ITM Chapter organized "The Colloquium of Iron and Steel" in April 2023, which is now considered a national event where some of the biggest companies in the steelmaking sector are eager to present technical conferences, to inform the students about work and internship opportunities. This event was held from April 25 to 27, gathering more than 250 students per conference in a presence modality, with the participation of the next companies: RHI Magnesita, Nucor JFE Steel Mexico, ArcelorMittal, Ternium, Gerdau Corsa, AMI, Primetals, DeAcero, General Electric, and Danfoss.

The student board organized K-12 activities to advance the awareness, understanding, and appreciation of science, technology, engineering, and math (STEM) in the K-12 student population. AIST-ITM student chapter main objective is to achieve that more young people in the city of Morelia, Michoacán, Mexico generate an interest in the study of metallurgy and applications for the use of iron and steel, providing opportunities for the personal and professional growth of our students with the attraction and connection of important companies in the sector.

For all of the above, I give my recommendation and support to the student board and its members.

Monserrat Sofía López C.
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