



MATERIAL ADVANTAGE SUEZ UNIVERSITY STUDENT CHAPTER

**CHAPTER OF EXCELLENCE
APPLICATION**

MAY 2018 ,27

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Chapter of Excellence Application 2017-2018

Material Advantage Suez University Student Chapter
MA SU SC

Submitted to ASM International

Prepared by
Hossam Ayman, President 2017 – 2018
Wssam Hassan, Secretary 2017 - 2018

Student Chapter Advisor
Dr. Marwa Ahmad Abbas

Chapter Overview

Material Advantage Suez University Student Chapter is a program specifically created for undergraduate and graduate students enrolled in materials science engineering programs at universities worldwide, to combine the individual benefits of four societies into one great advantage to students. MA SU SC are the first chapter in Egypt and The Middle East representing Material Advantage program among other 85 student chapters around the world.

MA SU SC was Founded on February 18, 2015 in Faculty of Petroleum and Mining Engineering Suez University.

Our Mission is to achieve an integration between technical knowledge and practical life through providing students with technical assistance through researches, courses, technical sessions and trainings.

Our vision is to:

- promote among students a self-sought increasing knowledge of Material Science and Engineering.
- Install a professional pride in their chosen life work.
- Connect students with the international benefits introduced by our partner societies.
- Making the chapter involved in the community through social events or community service.

The chapter is run by eight officers (president, vice president, treasurer, secretary, operation, marketing, academy and HR) who work together to maintain chapter records, plan and execute a wide variety of events.

We are selected as World Chapter of Excellence for two years in row (2015-2016,2016-2017)



High Board



HOSAM AYMAN
PRESIDENT



Ahmed Samir
Vice President



Ezz El-deen Akmal
Academy Manager



Wssam Hassan
Secretary



Omar Khaled
Marketing Manager



Mohamed Kaoud
Operation Manager



Mohamed Sayed
Treasurer



Nouran Alshaer
HR Manager



2017-2018 Officers: President: Hosam Ayman, Vice President: Ahmed Samir, Treasurer: Mohamed Sayed, Secretary: Wssam Hassan, Operation: Mohamed Kaoud, Marketing: Omar Khaled, Academy: Ezz Elden Akmal, HR: Nouran Alshaer.

Statistics

During Material Advantage Suez University Student Chapter (MA SU SC) season 2017 – 2018, we had a wealth plan with busy timeline including social, career development, technical and soft skills events.

We had :

- Membership grew to more than 120 active members from our startup till now.
- Publishing **issue 3** of the International Student Magazine - **SPECTRUM**.
- **+ 2800** likes on Facebook.
- Attendees reached more than **400** person in our mega events.
- Securing **SPECTRUM** financial sponsor.
- **2 Mega events**, one of them online and the other offline.
- In addition having **11 soft skills and career development events**.
- **5 Internships** opportunities for **72 students**.
- **3 Social events**.
- Participating in **Egyptian science week**.
- **10 workshops** and **2 Educational Meetings**.
- Reaching out **more companies** and making more deals.
- New Sponsor for our mega event.
- Dealing with more universities in Egypt to cooperate in our Mega Events.
- **Chapter of Excellence Award** worldwide for year 2016-2017

We managed to change the students' point of view to our department and showed them the real benefits of being a Metallurgical Engineer.

Highlights

[1] Career Development Conference 2 (CDC II)

CDC is a student-made conference targeting all students in all universities in Egypt. It mainly focuses on preparing students for practical life, helping them to identify their goals, clarifying the required steps to achieve their goals and the skills they need to work without feeling the gap between academic and real life.

[2] eMentoring Program 3

E-Mentoring program aims to link between academic students and field professionals for a period of time to share their knowledge and experience in many fields with students, helping them in starting their career after graduation.

[3] SPECTRUM Issue 3

SPECTRUM is the first international technical magazine in Egypt and the Middle East, which is specialized in material science and made by students. It contains suitable sections for professional engineers as well as normal students. The difference in issue 3 between 1 and 2 is that we had articles from inside and outside Egypt covering most of our fields.

[4] MA Development Program

MA Development Program is the first comprehensive program include the main and common soft skills that student need before they graduate, help them a lot in their field and personalities and to be stronger than their similars after graduation. The program was held during fall and spring semester targeting MA members and metallurgical & material engineering department students.

Programming

Completing our vision which based on innovation, we established new events and completed others from the previous season in order to give students all the benefits they need, but in different way with new contents and strategies.

Career Development Conference 2 – CDC II

- Career Development Conference (CDC) is the biggest students made conferences that would discuss the difference between the academic and the real life work, and show you the skills you need to close that gap between academic life and real life.
- CDC discusses the different paths that a graduate can have after graduation and introduce the graduates to the skills needed to be professional at their work.

CDC 2 was held in October 6 University with attendance of speakers from:

Bank Audi, Flyin, NBE, Vodafone, Albabtain Group and EzzSteel Co and Main sponsor **Flyin**.

There were several topics during the conference to gather all students' needs like:

- Marketing strategies
- Career Guiding
- Recruiting Strategies
- How to Conduct an Efficient Interview
- Decision Making
- Personal Branding

Speakers:

- Wael Sabry, HR Manager at Vodafone.
- Dr. Mohamed Mesbah, HR Manager at Bank Audi.
- Mr. Ahmed El A'ssar, Talent Acquisition Sr. Specialist at NBE.
- Mr. Hany Sherif Fathy, Senior Recruitment Specialist at Souq.com.
- Mr. Ahmed Moaz, Head of Commercial at Flyin.com.
- Mr. Hossam Faried, HR Manager at Albabtain Group.
- Mr. Mohamed Abou Zeid, Development Manager at EzzSteel Co.
- Hossam Heikal, Motivational Speaker and Facebook Blogger.



SPECTRUM 3

- SPECTURM is the first international magazine for materials engineers in Egypt. It is Published annually by MA Suez University Students Chapter since 2016 and is considered the one of biggest projects that the chapter works on. SPECTURM magazine is one of the few printed magazines representing MA student chapters all over 80+ countries.
- The magazine consists of different sections; Foreword for the Chapter's Chairperson and the Magazine's Editor in Chief, Interviews with some important figures in materials industry, New technologies section including articles for new technologies and techniques in materials industry, Young Researchers section including researches introduced by faculty students, Industry threshold section, and finally the Chapter's news section.
- Also, is presented in PR team interviews with managers in steel and petroleum companies in Egypt over the year (like EZZ STEEL, ELMARAKBY STEEL, Schlumberger, Halliburton, Petrojet, Khalda Petroleum company, Kuwait Energy company ...).

In Spectrum 3 we have:


- Interview with Dr. Frederick E. Schmidt President and Chairman of ASM International.
- Two Technical Articles
 - Accidents Lead to Miracles; Self-Healing Polymer
 - New Technique for Crack Orientation Detection in Metal Plates
- Two Research Projects
- A Case Study about Failure Analysis for Oil Production Flow Line.
- Ads for our partner societies and magazine main sponsor

SPECTRUM has many benefits for the chapter as:

- SPECTRUM is a great source of technical information with this number of technical articles and news.
 - Students can greatly benefit from the fabulous interviews with industry leaders.
 - SPECTRUM is platform for young professionals to show their thoughts.
 - SPECTRUM is the first marketing voice for us with all companies.
- SPECTRUM is a great way of recruiting new members.



TECHNICAL ARTICLE



**Accidents Lead to Miracles
Self-Healing Polymer**

Leah Scully - R & D Researcher at TerraCycle Co., Trenton, New Jersey

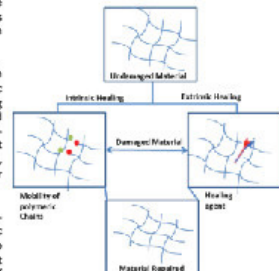
In the last decades the use of structural light-weight materials increased rapidly. In this respect, one of the biggest progressions of the past decades is the development reinforced polymer composites.

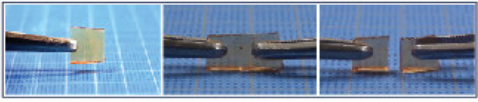
These materials consist of a polymer matrix that is reinforced with high performance fibers or particles. The combination of the complex internal structure of fiber reinforced composites makes that damage detected and damage repair of composite components is a very complicated and expensive process or even impossible. Because of these complications, the demand is growing for polymer composites that are capable of repairing themselves when locally damaged, which in turn increases the overall lifetime of the construction to which they belong.

Healable polymers with enhanced Long life and reliability are particularly attractive as next-generation materials for the realization of a sustainable society.

On the basis of their healing mechanisms, such materials are classified as exhibiting extrinsic or intrinsic healing behavior. Extrinsic healing depends on the presence of finely dispersed small capsules or vascular networks that separately entrap monomers and initiators that are mixed when the containers are broken, resulting in the formation of new polymer chains that connect the fractured parts.

This allows the material to heal only a limited number of times. In contrast, intrinsic mechanisms enable polymeric materials to heal multiple times. In some cases at ambient temperatures, through the reorganization of dynamic covalent bonds or through non-covalent interactions, mostly involving hydrogen bonds (H-bonds).





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eMentoring Program 3

- E-Mentoring Program is such effective and strong event which will maximize the circle of students' knowledge about technical life and its Challenges through their Mentors as well as keeping in continuous touch with them. We have a certain philosophy for eMentoring program to provide students with mentoring relationships to make a staple, nurturing relationships and show them varied career opportunities that exist and encourage them to improve their academic performance and introduce the integrated advice to be the ideal engineer through a determined online communication system.

Program Structure

eMentoring program will have the following structure in each relationship:

- Mentor: All professionals can have the opportunity to share their experience with students and become mentors.
- Mentee: All students pursuing degrees related to "Materials Science" field.
- Program Coordinator: Program Coordinator will be the point of contact between mentors and mentees throughout the program's duration. This person will answer all questions and inquires by both mentors and m

The Mentors share with the mentees:

- Career experience
- Advice and Guidance to reach goals.
- Tips for improving their academic achievement.
- Encouragement for career exploration.
- Resources to help mentee enhance personal development.

Mentee Roles:

- Start the relationship.
- Place a high value on setting goals to be achieved from the
- Take initiative and seek challenges.
- Show Eagerness to learn.
- Be in active status with their mentors.
- Give feedback about their mentors in the required time



For the third year in a row, E-Mentoring program is launched this season giving students the ability to choose three fields at most as they desire and concerns. The available fields were corrosion, welding, inspection, steel making and refining.

Mentors of this year:

Steel making

Mohamed Maher: Production engineer at Ezz Steel ERM-DRP
Ali M Bahaa El-Dein HEGAZY: Process Manager (Steelmaking)- Al Ezz Dekheila Steel Co. EZDK

Corrosion

Amr Saleh: Corrosion Engineer-EMC "Egyptian Maintenance Company"
Ahmed Mohamed Sabry: Senior Corrosion Engineer- Khalda Petroleum Company (Apache)

Welding

Ahmed Zeyada: Senior Welding Engineer and Welding Inspector at PSC
Mohamed Ali: QA/QC Welding Engineer Site Mgr. / Mechanical Inspector at Petroleum marine services

Inspection

Mohamed Hassona: Inspection Engineer at Kuwait Oil Company
Ahmed Hamdy Montaser: Metallurgist / Inspection Engineer at Kuwait Oil Company
Hares slal: plant Inspection Engineer at Khalda Petroleum Company (Apache)

Refining Engineering

Ahmed Hassan: GS Engineering & Construction at Egyptian Refinery Company

General Meetings

Four General Meetings were held this year, 2 in each semester at the Faculty of Petroleum and Mining Engineering building.

In the GM:

- 1- The President and Vice President give a speech about the achievement and the coming events that will be held by the chapter and raise the spirit of members to continue in the correct path.
- 2- The HR Manager give a session about a required skill that the HR Team see it is necessary to develop the members.
- 3- Fun materials related activities and competitions were held by the Operation team.
- 4- Award the best members and head in every month.
- 5- Divide the members into 5 groups and make every team to make a presentation about a subject the HR Team Chooses.
- 6- Hold an open discussion between the members and the president.
- 6- Make some time for taking photos for all members.

Dr. Marwa Abbas participated with us also and gave a speech about the new innovations in Metallurgy Field and made a suggestions about expanding the chapter's activities in all Egypt's Universities.



MA T-Shirt

In order to raise our fund and spread MA SU SC in the university, each year, we design a new t-shirt for all member. This year, the design was a polo t-shirt, short sleeves and grey color have the MA SU SC logo in the front and Material Advantage Name and Chapter of Excellence words at back.



MA SU SC Elections

Date: April 30th, 2018; at 3:00 p.m.

Venue: Hall 465, Faculty of Petroleum and Mining Engineering

The final day in our season was the Presidential Elections, the two candidates were:

Wssam Hassan, Secretary, 2017 season.
Nouran Elshaer, HR Manager, 2017 season.

The elections day began with a speech of Mr. Hosam Ayman, MA SU SC President the a speech from Dr. Marwa Abbas, The Faculty Advisor. Then Mr. Hosam and Dr. Marwa gave the certificates for the best members in the season.

The election program was:

- 1- A short PowerPoint presentation for each candidate.
- 2- Debate between the two candidates.

All members vote for their best candidate and the winner was Mr. Wssam Hassan.



Soft Skills Development

MA SC SU held 9 sessions and events to introduce various 8 soft skills to our members and even other student. Qualified speakers were glad to share their knowledge, experience and skills with our members and students through effective sessions.

[1] Personal Branding

Mr. Hazem Mohammed Rashad, Business Development Executive at APEX-Dubai, attended and presented the first session of fall semester. His presentation was focused on the meaning of personal branding and how to sell your fish. He talked enough about LinkedIn and the students were able to create their new accounts on LinkedIn with high rank.

[2] Presentation Skill

Mrs. Nouran Mohammed, HR Manager, and Mr Ahmed Samir, Vice President, presented this session which was the second one in soft skills development sessions.

Their presentation focused on how to be a perfect presenter, the main basics of an effective presentations, how to create the ppt presentation file and the most common mistakes in presentation.

In the end, there were a chance for 5 groups of student to apply and present a small project through what they benefited from this session.

[3] Negotiation Skill

Mr. Mohammed Elakabawy, Volunteer at TED, held the third session of our development sessions. His presentation focused on the meaning of negotiation, how to negotiate and how to reach a perfect deal. At the end of the session, he made a workshop to practice on negotiation.

[4] Photoshop Design

Mr. Hossam Loma, Former Marketing Officer, held two sessions respectively at the end of fall semester. He focused on photoshop program, its tools and how to use them, the meaning of design and how to use the simplest tools to get a perfect design.

The sessions was so effective that the students asked for more. We made a facebook group and followed them up on their designs to make sure that they got the value we seek to.

[5] CV Writing

Mr. Mahmoud Mohammed, HR Manager, held the first soft skills development during the spring semester focused on CV Writing, its segments and how to prepare a professional brief and comprehensive CV that suits their positions and segments content.

All students were able to create their CVs and have feedback from Mr. Mahmoud Mohammed personally.

[6] Interview Conducting

Mr. Mahmoud Mohammed, HR Manager, held a second session in the same day holding CV Writing about how to conduct an interview. He focused on sorts of interviews, the difference between a student activity position interview and job interview, how to talk and act during the interview and what to do before, during and after the interview.

[7] English language Skills

As we are an Arabic country, Arabic is our native language. Mr. Ahmed Taha, English Trainer, held the third session during spring semester about English language skills. He focused on the four skills of any language listening, talking, reading and writing. He talked about how to be fluent in English and how to increase your language skills.

[8] Leadership Skill

Mrs. Nouran Mohammed, HR Manager, held the final session during spring semester about leadership. She focused on the meaning of leadership, how to be leader, the difference between leaders and bosses and the main qualifications and characteristics of leaders. There were a workshop in the end of session and was so effective that our members; behavior changed during their work in their committees and acted like leaders.

Sessions Photos



Career Development

In addition to Career Development Conference 2, Spectrum issue 3 and eMentoring Program 3 that focus on the technical aspects of our field, MA SC SU made many events that serve this goal which matches our vision.

[1] Online Technical Event “Career Destination”

During August 2017, MA SC SU created online Facebook event for the new students in Metallurgical & Material Engineering Department to increase their knowledge about our fields. The event lasted for two weeks reaching the whole students in the 4 academic years.

This event provides the students with the information to define job roles and key accountability of each available job. Many Engineers posted in the event about their jobs and gave some advice for students about preparing themselves after graduation for the next stage in thrie life.



[2] Industrial Field & Yard Trips

To link between thioritical knowledge and real life we made some visits in leading companies in Egypt in Steel and oil industry. During the fall semester, 24 students have the ability to visit Ezz Steel Company for steel making in Suez. The yard trip had 2 hours sessions about the company and the factory, its production, processes and its safety. After sessions, they had 2 hours tour in the factory to see all its sections with full comprehensive explanation about its work and processes. We also hold many visits to many companies like:

- Egyptian Steel
- Danieli
- EzzSteel Plant in Elsadat
- Elmarakby Steel
- Ashry Steel
- Suez Steel
- International Pipe Industry Co. (IPIC) at Porsaid.



[3] Innovation Camp

- At the Innovation Camp, university students gather to collaboratively address a specific business challenge and come up with ideas to solve the challenge using leadership, critical-thinking and team-work skills.
- The program is an enriching experience for students as they are introduced to the Business Model Canvas and are divided into teams that compete against each other in a business challenge. This challenge requires students to propose a solution within a very limited time frame, given access to specific tools, information and resources.
- Throughout the program, students develop their interpersonal as well as problem-solving skills and learn to work under very tight deadlines using the available market resources innovatively.

The Camp is held on Monday, October 30, 2017 with attendees of 60 students and the speaker was Mr. Abdullah Fouad, Trainer at Injaz Masr Organization.



[4] Summer Internships

MA SU SC managed to get 5 summer Internships opportunities for 72 students.

- 35 opportunities in International Pipe Industry Co. (IPIC)
- 7 opportunities in Elmarakby Steel Co.
- 10 opportunities in Elashry Steel Co.
- 10 opportunities in Suez Steel Co. (SSC)
- 10 opportunities in The Industrial Engineering Company for Construction and Development (ICON).

Also, a deal made with Danieli to afford a training for 2 students in in the company headquarters in Buttrio, Italy.



[4] Metallurgy Career Guiding

We hold a session for Material Science & Engineering Department Students in Faculty of Petroleum and Mining Engineering to enhance their knowledge and experience in their field and show them the path of success that they must take after graduation. The speaker was Eng. Mohamed Ammar, Technical Support Manager at Khalda Co.

The event consist of:

- 1- General Introduction.
- 2- Oil & Gas Field Careers.
- 3- The Life after Graduation.
- 4- Material Science and Metallurgy Career Path.
- 5- Market Requirements
- 6- How to prepare yourself to get a job after graduation.
- 7- Successful stories.
- 8- Training Courses.



[5] Cathodic Protection Day

MA SU SC and Mecorr made an agreement for this year to hold an event with a certified course to enrich the knowledge about corrosion control & Inspection with the leading corrosion control & inspection company in Middle East.

The event was held at 226 Hall at Faculty of Petroleum and Mining Engineering, Suez University with attendees from 20 students and professional Engineers from Mecorr Co.

The day will consist of two sessions

- Cathodic protection session by Eng. Islam Saleh.
- Inspection session by Eng. Wafaa Khairy.

This is the Second time to cooperate with Mecorr and we make a deal to hold this event every year with different topics and engineers.



[6] MA International Session

As we are a referenced chapter with international Organizations, and according to the advantages that four organizations provide to their members, Mr. Wssam Hassan and Mrs. Nouran Alshaer hold a session for MA SU SC new comers to illustrate the benefits produced by our organizations and the different competitions that we can participate like:

- AIST Foundation Video Challenge
- T.C. Graham Prize
- TMS Outstanding Student Paper Contest
- MS&T Travel Grants



[7] HSE Day at Schlumberger

The Health and Safety Executive (HSE) is the body responsible for the encouragement, regulation and enforcement of workplace health, safety and welfare. As it is one of the main fields that we study in the faculty we made a visit to Schlumberger to have a yard trip in their headquarter. Schlumberger engineers gave a session about HSE and it's functions and benefits and gave the students a certificate of attendace for participating in this seassion.



[8] Technical Meetings

Egyps: EGYPS 2018 brings together Egyptian and North African government representatives, key project owners, NOCs and IOCs, international service providers, EPC contractors, consultants and financiers to address the evolving opportunities in the Egyptian and North African energy arena. EGYPS will help to identify Egypt's future project requirements, the country's short and long term plans, strategic priorities and masterplans and gain insights into the wider North African oil and gas sector. A group of MA SU SC members visited the conference and took a tour in the Exhibition which the met many of well-known managers of different companies like EzzSteel, Halliburton, Schlumberger and BP.

ESME Technical Conference: Egyptian Society of Material Engineers held a conference in Modern Academy to discuss the different fields of Material Science Engineering. The event had many engineers in Welding, Coating, NDT, Lifting and HSE Fields. Our members met many students from all universities in Egypt and share knowledge and experience between them.

Egyptian Science Week: Egyptian Science Week is an annual Egyptian event that celebrates science and technology. The celebration gathers vast scientific events which are spread all around Egypt and held through buzzing scientific shows, inspiring public lectures, engaging scientific competitions and various exciting activities.

Materials Day: An event held at Suez University gathering many engineers and scientists from different companies to talk about Welding field. MA SU SC members went to the the event and listened to the presentation and the discussion between the speakers.

FMCGs, Manufacturing & Automotive Employment Fair: Tarek Galal, Public Relations member attended the job fair organized by Engineers' Careers. FMCGs is specialized Engineering Recruitment Day where there is 1000+ Vacancies in engineering field, 30+ Top Employers, 15+ Sessions and talks by top industry speakers.

[9] Facebook Technical Posts

Our Academy team used to publish a technical post every Friday, they posted about different field such as: Ceramics, Plastics, Nano Technology, Inspection and Steel Industry.

Services

MA SC SU believes that to build a unique brand, you have to reach all types of audience and build a good reputation. MA SC SU made it a priority to give back to the community through a good number of community services using all possible methods like social networks, chapter initiatives or by participation.

[1] iMetallurgist 3

As we believe that students before the university must have the right to choose their future career and determine from this instant the field they do want, we continued iMetallurgist program which seeks to give the students before the university enough knowledge about Material Science and Engineering field. This year, we hold the iMetallurgist in many schools differ from those we reached last two year with a different program to encourage students to take Material Science field as their major. We could do this by showing students the importance of materials and their contributions in our daily lives.

[2] Blood Donation Campaign

We participated in a blood drive campaign with student union in our university under the supervision of ministry of health. Our members also helped the doctors and nurses in the donation process and made a campaign in the university to tell the students about the benefits of donation and how they can have a great impact on the people's life.

Also like the last year, we made a table of blood types for all students who are ready to donate if anyone needed their blood type. If an accident or surgery is scheduled and the certain blood type is needed, we call the donators to go to the place of surgery and make the donation.

[3] She Can

Our president Hosam Ayman participated in She Can event at 6 October University. "She Can" is an annual event as a part of a large campaign for women empowerment launched two years ago as a believe from all of us that empowering women is an important step to develop nations, achieving this through displaying successful stories of women all over the Middle East.

[4] Orphans Day

Anything we can do to help could make a world of a difference to an impoverished orphan, so we took some time to figure out what we can do to them. Our team went to the charity and cheered them up by doing many activities with them such as eating lunch, playing football, cards, chatting, painting and reading story. The day was wonderful and the orphans were so happy.



[5] Collecting Money for a Charity

Fundraising for the Community Part of our service for the community included collecting funds for the Youth & Shelter Services. In Cooperation with Shamsia Space, we put out a box to collect money from students and donate it to a charity.

[6] Say No To Drugs Campaign in Suez

Our members participated in "Say No to Drugs" campaign adopted by the Ministry of Social Solidarity and the Fund for Drug Control and Treatment of Addiction (FDCTA), to encourage the Egyptian youth to stay away from all kinds of drugs.

They discussed with the university students about the reasons of taking drugs and why this phenomenon is increasing among Egypt's youth and Also, Made a suggestions for solutions.

[7] Anti-Harassment Campaign

Following the campaign of the last year, We made a survey among big number of students in our university in order to reach the real reason for this social disease. The reasons differ from one to another. But they agreed on some reason like: Violence and Male Self-Perception, Men who misunderstand and misread signals from women and Discrimination as a Form Of Workplace Control.

[8] Iftar Ramadan for PME Students

MA SU SC members and PME students and professors made a day to have the iftar of ramadan together. This was an opportunity to enjoy lunch and engage in other social lawn games and activities for the department and for bonding within the department community.

[9] 57357 Visit

Our Operation team besides many members held a visit to 57357 hospital, the met the children and spent the whole day playing and did many activities with the patients. Also, the saw the new innovations and plans for the hospital to spread it's role in treating cancer patients.



Social Activities

With sorrow, members and students' days in university are usually busy and fully, so MA SC SU decided to take the step and provide them a joyful break every so often through small events but so effective.

[1] MA Fun Day

We do believe in the Swiss psychologist Jean Piaget who said that the more students are happy, the more they are productive, so we made a fun day for our members and students. The day was full of joy, happiness and amusing. The day program includes playing football, playing cards, movies game, ball and fish game and other games. The day made them day. Although the day was exhausting, we were energetic and so happy with its success.



[2] Pizza Day

We made a great surprise to our members by offering free pizza meals and snacks sponsored by our partner society AIST. The day was very helpful and made all members motivated for work and to give the best for the chapter as they felt that the chapter is their home so they are ready make their home the best chapter of MA chapters around the world. This day had a great effect on the work of students during the whole season.

The day included many activities and presentation on benefits introduced by AIST for students as it's the reason for making that day. We participated in a blood drive campaign with student union in our university under the supervision of ministry of health. Our members also helped the doctors and nurses in the donation process and made a campaign in the university to tell the students about the benefits of donation and how they can have a great impact on the people's life.



[3] MA Football League

Due to our belief in the importance of sport. Our Operation team established a football league held at the Suez University playgrounds. 8 teams participated in the tournament from our university. It lasted for 2 weeks and the prize was Egypt T-shirts for all team players and a cup.



[4] Welcome Party

MA made a party for the new comer students of Faculty of Petroleum and Mining Engineering. First, We gave them a lot of information about the department and Faculty. Then, we told them about MA Suez and our activities. Snacks and games were provided for all attendees.



[5] IQ Competition

MA SU SC held many IQ competitions among the students to increase their ability of thinking and develop their innovation skills. The IQ questions were put by our HR Officer, Nouran Alshaer and Our Vice President, Mr. Ahmed Samir. Many students participated in the IQ Competition and were satisfied from the questions techniques. The winner took many prizes like: Chocolate, Snacks and Medals.

[5] Suez Runners Marathon

Great Moments never end. awesome races, hundreds of awesome runners made a wonderful day to tell. Under this slogan, a group of our members participated in Suez Runners Marathon which is organized by Suez Runners Team.

[6] Egyptian Booling Center Visit

To increase passion and re-activate our members spirit, we visit the Egyptian Booling Center and play many games there. The day was full of joy and happiness.



With sorrow, members and students' days in university are usually busy and fully, so MA SC SU decided to take the step and provide them a joyful break every so often through small events but so effective.

Chapter Structure

MA SC SU structure consists of 6 main segments which are Marketing, Operation, Academy, Human Resources, Secretary and Treasury segments, managers of the six segments plus Chapter's President and Vice President consist the High Board of the Chapter.

Under each Manager, there are a number of integrated committees to achieve the task of the segment, each committee is directed by a Head so Heads of committees represent the Executive Board of the chapter. Both High Board and Executive Board are the main drivers of the chapter.

Workflow and Duties

Workflow inside the chapter can be divided into 2 types:

- 1- Workflow between segments of the chapter.
- 2- Workflow between committees of each segment.

In MA SC SU duties are designed based on needs of the chapter not to just fill seats so all chapter segments and committees were determined to achieve integration between them in duties to ensure the proper workflow.

Marketing Manager takes the responsibility of 3 committees:

- Direct Publicity Committee
- Multimedia Committee
- Website Committee

Operation Manager takes the responsibility of 1 committee:

- Logistics Committee

HR Manager takes the responsibility of 2 committees:

- Human Resources Management
- Human Resources Development

Secretary takes the responsibility of 2 committees:

- International Relations Management Committee
- Spectrum Committee

Chapter Treasurer takes the responsibility of 2 committees:

- Public Relations Committee
- Fund Raising Committee

Academy Manager takes the responsibility of 1 committee:

- Research and Project Committee

Workflow and Duties

MA SC SU has a number of products directed by separated teams, some of these products were achieved during this year:

- Career Development Conference 2
- eMentoring Program 3rd year
- MA Job Fair (Under Planning)
- SPECTRUM issue 3
- Field Trips
- Yard Trips
- Social Activities
- Metallurgist Program
- Mega Technical Conference in Egypt Board (Under Planning)

Chapter Structure

High Board Camps: 2 camps (one camp before the start of each semester for one week).

- To discuss chapter's plan during each semester and the other in the winter vacation.

High Board Meetings: 20 meetings (one meeting per week)

- To discuss the progress of the Chapter. Also, there is an online meeting every week to follow the chapter activities.

High Board and Executive Board Meetings: 6 meetings (one meeting each 4 weeks)

- To achieve communication between all segments of the chapter.

Educational Meetings

General Member Meetings are called Educational Meetings in which students had many valuable sessions, career based sessions, MA membership benefits sessions and competitions between all members.

Two Educational Meetings were held (one in each semester).

Daily Meetings

Weekly meetings with our advisor for keeping the strong bond between us and ensure that we are on the right track. Educational Weekly Meetings between committees' heads and their members to discuss the work of the committee and enhance members' skills. Segments Weekly Meetings between each manager and heads of committees under his supervision to discuss their performance, current events and workflow between them.

Recruiting Activities

Following the activities of the last two years, MA SC SU had many recruitment activities during this year which were very successful to end the year by having 100 active members holding the chapter membership card like:

- Online Recruitment events on Facebook (2 events during the year) conducted by Multimedia Team
- Offline Recruitment events at the campus (2 events during the year) conducted by Direct Publicity Team.
- Ambassadors Program to recruit students from other universities.
- Branding Campaigns by International Relations Team at the campus to promote MA international benefits.
- SPECTRUM: Chapter Official Magazine which is our first tool to recruit new members.
- Information Sessions about MA international benefits.
- Newsletters about our upcoming events and new membership offers.
- Golden Box Competitions which are simple competitions between students on technical information. Students who win this competition (up to 3 students) open the Golden Box to have their special membership offers.

Delegates Program

One of the most creative recruiting activities this that was started last year under the name of "Ambassadors Program". This year, we developed the program under the name of "Delegates Program" MA SC SU worked to reach all students pursuing Materials Science & Engineering degree in all universities all over Egypt. We held meetings with many students in the other universities like:

- Cairo University
- Assiout University
- MSA University
- American University in Cairo

We made a great success in increasing our members in these universities and made many deals about many Technical and Non-Technical events between MA SU SC and them.

HR System

- 1- Creating a database for the whole chapter members: The data base will include:
 - Names and their Committees
 - Number of tasks and meetings assigned to each member.
 - The percent of completed tasks.
 - The skills required to be developed in each membr.
 - The progress made in member development.
 - Extra points should be earned through extra tasks, creativity and new ideas.
- 2- The tasks will be assigned to each member either by: emails or Facebook group with the HR envoy mentioned.
- 3- The envoy is required to follow the tasks assignation and execution.
- 4- Each month, a report about each committee performance is presented to the committee head. As well as a monthly evaluation about each member. It will help to find the drawbacks in each team and fix it.
- 5- The overall evaluation points will be later assigned according to each committee role and job description. Every month the best member in each committee will be announced in our Page, There will be a section in our website hold the name "The best in Month-"

The overall rate of each member will be calculated depending on:

- Making tasks
- Quality of tasks
- Timing
- Attendance of meetings
- Innovation
- Extra work (bonus)
- Solving committee problems

Strong Bylaws and Work Ethics

- No leader interfere in other leader work
- No leader give orders to members in another committee
- No members can interfere in others work - Members must respect their leaders
- No one ever can offend others in the chapter during work or due to anything related to the chapter

Rewarding and Firing systems

Besides the recognition on the website and Facebook page:

- The names will of the best members will be published in the chapter newsletter.
- The best members will have the next event free, and the second will have a 50% reduction.
- There will be a prize "Outstanding Performance" for the members at the end of each semester.
- There will be punishments for those who break any of the roles by making appraisal meetings between (HR manager and those who made the problem) and the punishment will be settled depending on the appraisal meeting
- Any offense (in purpose and because of working in the chapter not personal manner, its punishment is firing.

Quality Assurance System

HR segment will be responsible to ensure the highest quality of every event and product:

- Making a feedback system for events.
- Managing the quality of chapter events.
- Preparing any required applications.

Problem Solving System

- As HR envoy existence in all committees, their responsibility to solve the committees' problem.
- First they must build a strong relation with the team member.
- Define the problem and analysis the situation.
- Contacting with the head to put the available solution
- Implement the proper solution.
- HR e-mail could be for any complain.

Chapter Finances

All Finances are conducted by chapter treasurer who has the responsibility of:

- Managing Chapter Bank Account.
- Handling all receipts and expenditures.
- Preparing all documentation required for expenditures.
- Preparing monthly financial reports.

Fundraising Methods:

- MA T-shirts and Accessories.
- Events held by the chapter.
- Trips organized by us, we made deals with travel agencies so that the costs of trips were reduced and make good fund from it.
- Activate the YouTube channel and make large number of views on our videos.
- Financial sponsor for our main conference.
- Getting financial support for SPECTRUM.

Elections

Presidential elections in MA SC SU was conducted by a committee called Nomination Committee consisting of outgoing board except board members who would run for the elections. Choosing the new president went through a number of stages as following:

Stage 1: Uploading the Presidential Application prepared by the NC with a deadline 7 days to complete it.

Stage 2: Filtration stage for all received applications based on firm criteria.

Stage 3: Interviewing stage with applicants passed the filtration stage with the NC.

Stage 4: Presentation Day for applicants passed the interviewing stage in front of all chapter members.

Stage 5: Debate with candidates for 15 min.

Stage 6: Voting for best applicant by all members of the chapter.

Elections are held 6 weeks before the end of semester, which enables newly elected president to choose the High Board and Board members early so they can have much time to be ready for the new season.

Communication

Our Facebook page likes are more than 2800 likes:

<https://www.facebook.com/MASCSUEZ/>

We also exist on linkedin to reach companies and professionals

<https://www.linkedin.com/company/material-advantage-suez-university>

Our Website team managed to design an attractive website to officially represent our chapter. The website contains all information about us, news and important programs like eMentoring program, Field Trip Application. We have a great development plan for the website next year to be our first communication tool with students.

<http://masusc.org/>

Instagram account for publishing photos of events, meetings and chapter activities.

<https://www.instagram.com/masuscofficial/>



Continuity of Excellence

In MA SC SU, we ensure the excellence from year to year through:

- 1- The strong elections system by the NC ensuring that the new president's plan will achieve the required progress.
- 2- The strong criteria determined by The HR Committee which consists of the outgoing and incoming presidents to choose the new board.
- 3- The transition camp between incoming board and outgoing board for one month during which outgoing board helps incoming board to know all necessary information about work and chapter records.
- 4- The continuity in enhancing our products like CDC, Spectrum and eMentoring.
- 5- Make more deals with the companies to reduce the gap between the practical and theoretical life.
- 6- Integration between committees to ensure the high level of introducing our products.
- 7- Meeting with chapter's advisor to discuss the new direction of the chapter with the new board.

Job Description

President: The President shall be the chief executive officer of the chapter, shall preside at all meetings of the chapter and Student Board of Directors. The President shall:

- Leading the whole chapter in its various activities for 2018 season.
- Handling problems with chapter instructor
- Responsible for development plan of the members

Vice President: The Vice President shall have the authority and assume the full duties of the President in the case of his absence. The Vice President shall:

- Acquaint himself with all the duties of the President and other officers.
- Familiarize himself with the duties of the committees.
- Aid the President in the chapter affairs and plans

Secretary:

- Conduct the correspondence for the student chapter;
- Keep attendance records for chapter meetings, workshops and regional seminars
- Deal with university to finish the chapter's papers
- Responsible of Spectrum Magazine

Treasurer:

- Keep accounts, collect debts, make payments and be responsible for all chapter funds.
- Furnish the President with information needed from chapter records for the annual report
- Deals with the companies to make Field or Yard Trips and provide summer internships for the students.

Academy Officer:

- Arranging a program of academic activities during the season and execute the academic plan of the chapter.
- Helping students to be up-to-date with the new technology and reducing the gap between the theoretical studies and the practical world.
- Generating new ideas for technical workshops.
- Deciding the priority of all technical sessions that are required to be brought for the students through our syllabus.

HR Officer:

- Managing the human resources of an organization of 140+ persons.
- Main responsible for entity's recruiting and staffing.
- Main responsible for members' development. (MA Development Program)
- Creating Chapter Policies.
- Main responsible for entity's Performance Management.

Marketing Officer:

- Preparing, planning and project managing the publication of all publicity material.
- Creating marketing campaigns.
- Planning and project managing marketing events and evaluating their success.
- Evaluating the effectiveness of all marketing activity.

Operation Officer:

- Handling the organizing of technical courses and workshops ...etc.
- Preparing course equipment and provisions for courses.
- Providing logistical needs as equipment, transportation, maintaining the schedule and secure all requirements.
- Handling legal procedures with faculty administration and chapter sponsors.
- Proposing events, plans, supervising and executing them.



Department of Material Science & Engineering



May 25, 2018

As the Advisor of Material Advantage Student Chapter at Suez University, it is my pleasure to give my highest endorsement of the chapter and its many valuable programs and activities. The officers and members have truly exceeded all the expectations in their very third year of at our university.

The chapter has been extremely active throughout this year. They managed to set short and long-term goals and worked hard to fulfill a good deal of the anticipated programs and events. They complete the great success of «Career Development Conference» which discussed different paths that a graduate can have after graduation and preparation the graduates with the skills needed to be professional at their work by choosing a new venue for the conference besides many well-known companies to participate in it.

They have done a great job in every detail to get this conference organized in a highly professional manner, they managed to have a media sponsor to cover all the conference events and speakers.

Also, publishing the third issue of Spectrum magazine, which was amazing and received by a great impression for the students and professors of Faculty of Petroleum and Mining Engineering.

Besides their technical activities, the chapter has also sponsored and contributed in many social events and participated in many charitable events like the Suez Runner Marathon, ٥٧٣٥٧ Visit and the blood donation campaign.

This year, they manage to develop the chapter structure and made some edits on the job description of many leaders which maintained the good workflow between the members. One of the great edits was making Spectrum Committee under the supervision of Secretary as he deals with the international student chapter so he helps to develop the committee and get many articles from scientists from other universities outside Egypt.

In brief, MA chapter at Suez University is a valuable addition to the students at Suez University. They have shown high commitment, enthusiasm and organizational skills, which has been inspiring to other students. I am quite happy to give them my strongest recommendation. Please do not hesitate to contact me should you have any further inquiries.

Regards,

Dr. Marwa Abbas

