



THE MA SU SC

2016-2017 ANNUAL REPORT



Overview

About

Material Advantage Student Chapter at Suez University (MA SC SU) was founded in 2015 to be the first chapter representing MA program in Egypt. We won the Chapter Of Excellence award as a recognition to the remarkable work during our first season. We managed to solve the big problem in our department that most of students are forced to enter the Metallurgical department because of their grades in the first academic year. Now the number of our members are very large comparing with our beginning and this is an evidence that we truly changed the students' look to our department and showed them the real benefits of being a metallurgical engineer. .



MA SC SU has a long term vision based on building a real brand among all students in Egypt.

1. Preparing students for entering the workforce by supporting them in the following areas:

* Technical Skills * Career Development * Soft Skills

2. Connect students with the international benefits introduced by our partner societies.

3. Achieving widespread outreach to reach other universities in Egypt and High School Students.

4. Making the chapter involved in the community through social events or community service.

2016-2017 Highlights

(CDC) CAREER DEVELOPMENT CONFERENCE

CDC is the biggest students made conferences that discussed the difference between the academic and the real life work, and show students the skills they need to be qualified enough after graduation. Many leading companies participated with us in the conference like Danieli, Schlumberger, Halliburton, Capital drilling, Baker Hughes.

SPECTRUM Issue 2

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. After we showed a real professionalism by publishing the first issue last season, we had to continue with issue two with professionalism no less than the first one.

eMentoring Program 2

This program aims to link between students and professionals for a period of time to give students the ability to gain enough experience to help them after graduation. After the success of the program in the first year and due to our belief in the value which this program provides to students, we established stage two with more mentors and more specilizations.

2016-2017 Statistics



Membership grew to more than 100 active members from our startup till now



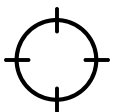
Publishing issue 2 of the International Student Magazine - SPECTRUM -



attendees reached more than 250 person in our mega events



+ 2200 likes on Facebook



*Securing SPECTRUM financial sponsor
*reaching out more companies and making more deals



3 Summer Internships
4 Field Trips



15 workshop



2 Educational Meetings



* Chapter of Excellence Award worldwide for year 2015-2016

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.

Career Development Conference - CDC



GOALS

CDC is the biggest students made conferences that discussed the difference between the academic and the real life work, and show you the skills you need to close that gap between them.

This event discussed different paths that a graduate can have after graduation and introduce the graduates to the skills needed to be professional at their work.

SESSIONS

- **CV Writing Skills** by Ms.Fatma Taraman (HR specialist at Halliburton)
- **Making Your Own Brand** by Mr.Ahmed Elgazar
(Marketing Manager at Baker Hughes)
- **Interviewing Skills** by Mr.Mostafa Ramadan (HR manager at Capital Drilling)
- **Market Requirements** by Mr.Samy Mahmoud (Danieli office Manager in Egypt)
- **Time Management** by Mr.Mohamed Nassar
(Geology team leader at Schlumberger)

SPONSORS

- Schlumberger
- Halliburton
- Capital drilling
- Baker Hughes
- Samsung
- Vodafone
- Danieli
- Apex
- Injaz



ABOUT

SPECTRUM is the first international technical magazine in Egypt and the Middle East, which is specialized in material science and made by students. It is considered a window on the outside world for those who are interested in the material field to be up to date with the latest industrial news in the world. It contains suitable sections for professional engineers as well as normal students.

CONTENT

SPECTRUM is a technical magazine containing the following sections:

- Chapter President and SPECTRUM CEO Forewords.
- Two interviews with well-known industry leaders
 - **Dr. William E. Frazier**, ASM President.
 - **Mr. Samy Mahmoud**, Danieli General Manager
- Articles by academics and young professionals including:
 - Case studies.
 - New technologies .
 - Researches.
 - Golden through ages.
 - Industry News
 - Chapter News.
- Ads for our partner societies and magazine main sponsor.

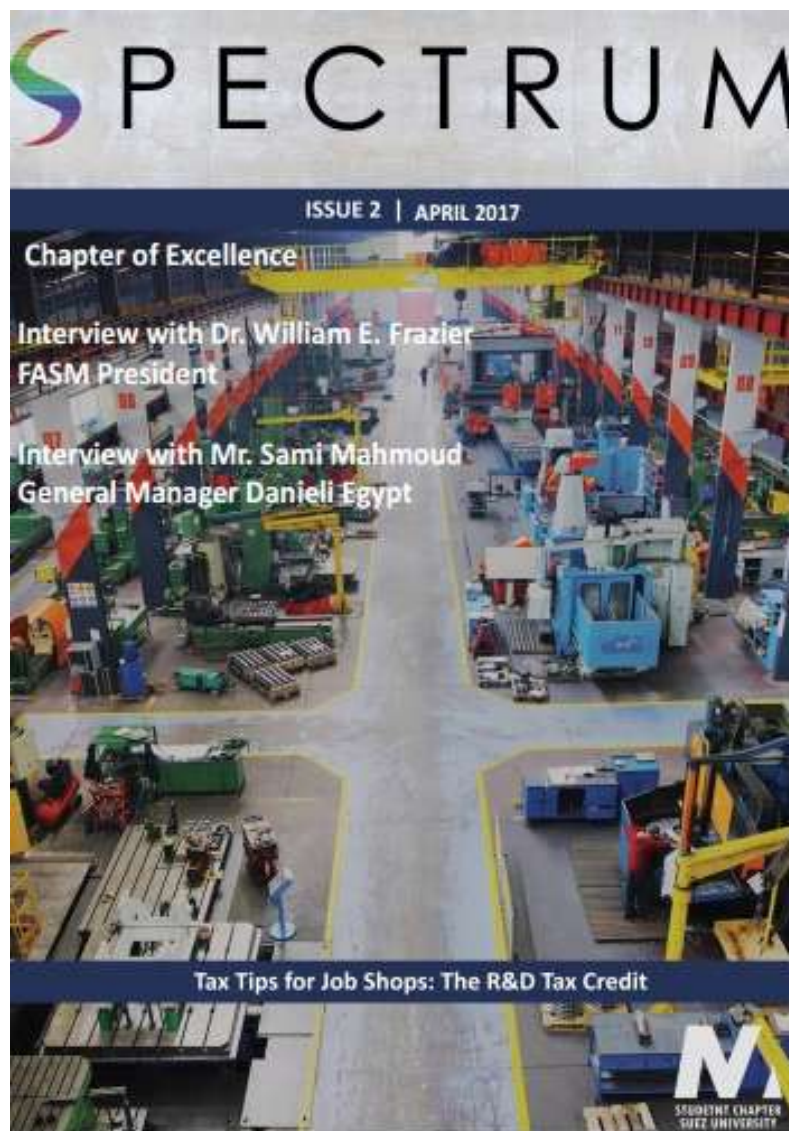
BENEFITS

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.

SPONSOR

- This year, we managed to find a financial sponsor
- SPECTRUM's main and financial sponsor is **Danieli** Group company.



eMentoring Program 2



Due to the easy way we follow in linking between the mentees and the mentors they choosed, the eMentoring program achieved a great success last year.

eMentoring is a way of providing students a deep insight into their academic and career life by building a strong relationship between students and professionals using social networks. The professionals share their practical experience and career advice to help students making decisions towards their future life.

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.

This year, we had a responsibility to meet all students needs so the mentors are with more **specializations** than the last season to give students the chance to choose the mentor they want in the major they desire.

The program follows three steps :

- First step : mentees complete an application to know their reasons to have a mentor, benefits they expect to have from this relationship and criteria they want in their mentors.
- Second step : a request is to be sent to the mentor with the application and the mentee gets the decision of the mentor within two weeks.
- Third step : We link between the mentor and the mentee, and they choose the best way of communication. This could be:
 - Outdoor contact if available.
 - Phone contact
 - Contact on social media (Facebook, Twitter, Instagram, Gmail)

MA School

Attendees:(40:60) students in each session

Number of Workshops: 6 workshops (three workshops in every semester)

Through that Event, we managed to make Material Science easier to study. Students began to understand it very well.

The event aims to:

- Establish some basics in metallurgy for material science students in order to make studying details easier by making seminars for students to explain metallurgy from the beginning.
- Helping students in studying material science by making sessions to illustrate some points to help them pass the exams.



This year, we focused on the students in their final year to be the presenters in order to close the gap between professors and students which make an obstacle for students to understand the lectures.

In our department, students always find Materials Science a difficult subject to understand but at the same time it represents the main base of our career so MA SU SC completed **MA School** for the second year.

Schlumberger HSE course



Attendees:10 Students

Duration: 8 Hours

As a result of our partnership with one of the leading companies in oil & gas industry worldwide “Schlumberger”, we managed to hold a day in one of its field sites in Egypt.

The day starts with a seminar about safety measures and `we took a free tour in the field to test these measures by ourselves. We had the ability to talk with all employees at the site about how safe they feel during their work period and all their comments were very positive.

After that, we discussed about what we had seen and every one of us made his statement about the safety measures in the company.

Career Development

Plant Visits

Number of field visits: 4

Number of students: (30-40) students in each one

To link between thioritical knowledge and real life we made some visits in leading companies in Egypt in Steel and oil industry.

Ezz Steel and **Egyptian Steel** Companies in Steel Industry
Energya for steel fabrication in quality Control & Inspection field.
Schlumberger & Petrobel in Oil & Gas Industry.



Develop Your Idea



Number of Students: 40 Students

Duration: 6 hours Certified Course

As a continuance of our collaboration with Injaz Egypt, we hold a distinctive event called “develop your idea”.

During the event, university students gather to collaboratively address a specific business challenge and come up with ideas to solve the challenge using leadership, critical-thinking and teamwork 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.

Internships

We managed to hold many internships this year for:

1- Danieli : two types of internships

- _ 3 opportunities outside Egypt for an internship in the company headquarters in Buttrio, Italy.
- _ 45 opportunities inside Egypt

2- Egyptian Steel Company:

Number of opportunities: 25

Duration of training: two weeks

3- Energya for steel fabrication

10 opportunities

Duration: one month



Career Destination

it is an online event (done in two stages), at which we could deliver the experience of more than 20 metallurgical engineers in many specializations:

Every engineer write some information about the specialization he/she follows.

what should students do to work in this field? And the perfect path to follow.

some discussion between students and every engineer starts to make sure all students have got all the given information.

It is a good interactive way to deliver the students the needed value

MA International Benefits Sessions

Number of sessions: 4 (2 sessions in every semester)
number of attendees : (50-80) member in each session.

Last year, we held a session to illustrate the benefits produced by our organizations for all MA members. But one session wasn't enough to illustrate all the benefits produced by the four organizations.

This year, we made four sessions along the season (two in each semester) for making our members fully aware of material advantage benefits.

We focused on encouraging students to make MA International Membership with a special presentation in each session:

- It was conducted by chapter's president showing the power of the membership of our partner societies.
- Steps needed to make membership in MA was illustrated in the end on each session

Educational Meetings



Number of meetings: 4 (2 in each semester)

last year we were explaining MA membership in our general meetings but the time for it wasn't enough so this year we made 4 sessions for MA benefits only as mentioned above.

We focused in our general meetings on:

*Linking between all members to know each other well.

*some entertainment activities between members and chapter board to break the ice between the leaders and ordinary members.

- Competitions between chapter members (technical & non-technical)..



As Material Science and Engineering Field contain many branches, many fresh graduates face a real confusion to choose the way to start their career.

In order to make all available destinations for a Material Science engineer very clear for him to choose the way he sees suitable, we hold this event which contained:

- General Introduction about all available specifications in Material Science field.
- The awareness of the market requirements at the currently.
- How to prepare yourself to get a job quickly?
- The required training courses needed to make you qualified to get the job you want.

Service

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.

iMetallurgist 2

After the great effect which the program left in high school “k12” students, it was a must to continue holding this event to give the k12 students enough knowledge about Material Science and Engineering field.

This year, we hold the iMetallurgist in many schools differ from those we reached last 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.



Orphans marathon day



Orphaned children are in serious need to our support as they lost their parents. It is our duty to help them and make them happy.

This year we made a marathon specially for orphaned children. It was and the look of joy on their faces on the end of the day was the greatest prize for us

Anti-Harassment Campaign

Harassment is a serious problem in our community. It is a social disease that we have to find a cure for it.

MA SU SC is a part of the community so we had to take part in finding that cure. 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. some blamed the group of women & girls for their inappropriate actions among the public which encourage some youths to harass them.

On the other hand, most of students blamed those who harass girls and women and demanded the government to apply a serious punishment on them.



NAQAA Project Updating



Last year, we started a new project under the name of "NAQAA" which means "Purity" in English aims at providing the safest and best affordable water treatment for all Egyptians.

The project is simply a filter consists of two containers, the upper container for collecting all impurities in water and the lower container for treated water. Containers are made of food-grade plastic which equipped in the middle by a filter candle which is nearly 12 cm in height and 6 cm in width, the candle is made of porous ceramic, colloidal silver to kill Bactria and fungi in water to keep water clean and activated carbon in the core to improve taste of water by removing all strange chemicals.

The project is very practical and efficient due to its **good productivity** with 2-3 liters per hour and **99.9 % purity**

We could reach a good number of poor twons in Egypt and provide the people who live there a way to live.

Continuous Blood Drive

Last year, we participated in a blood drive campaign with student union in our university under the supervision of ministry of health. This is a good step in helping the needed persons for this blood but this help is not continuous and ends with consuming the donated blood.

We thought about this problem and decided to do something about it. 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 donors to go to the place of surgery and make the donation.

By this way, we are sure that the blood is given to the needed persons and prevent the inappropriate trade in blood which could lead to death if the injured person was poor and can't afford the cost of the blood.

Social Activities

MA League

Due to our belief in the importance of sport. We established a league in football between 12 teams from our university. It lasted for a week.



Masquerade



MA SU SC has organized a masquerade as a change in the students routine day

The day was so successful and a lot of students participated with us and dressed unique clothes.

After the day, all students were happy and demanded to repeat it every year.

Fun Day

MA SC SU organized a big party in fresh air to celebrate chapter's opening in the second year at the campus. The main goal of the party was recruiting new members to join us in the new season. The atmosphere of the day was full of fun, games, excitement and many competitions between students.



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.



Chapter Management

Chapter Structure

MA SC SU structure consists of 6 main segments which are Marketing, Operation, Technical, 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 (12 Members for 12 Committees). Both High Board and Executive Board are the main drivers of the chapter.

Chapter Products

Apart from this structure, MA SC SU has a number of products directed by separated teams, some of these products were achieved during this year and others still under planning for next year like:

- * Career Development Conference
- * eMentoring Program 2nd year
- * MA Store team – Under Planning
- * SPECTRUM issue 2
- * New Trends and Challenges in Steel Industry in Egypt conference Board – Achieved this year

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:

- * Social Media Committee
- * Direct Publicity Committee
- * Multimedia Committee

Operation Manager takes the responsibility of 2 committees:

- * Logistics Committee
- * Outreach Committee

HR Manager takes the responsibility of 2 committees:

- * Recruiting & Evaluating Committee
- * Quality Management Committee

Chapter Secretary takes the responsibility of 2 committees:

- * International Relations Management Committee
- * Website Committee

Chapter Treasurer takes the responsibility of 2 committees:

- * Public Relations Committee
- * Fund Raising Committee

Technical Manager takes the responsibility of 1 committee:

- * Research and Project Committee

Board Meetings

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

- To discuss chapter's plan during each semester

High Board Meetings: 24 meetings (one meeting per week)

- To discuss the progress of the chapter

High Board and Executive Board Meetings: 12 meetings (one meeting each 2 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.

Weekly 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.

Tracking System

In order to have a strong entity, you have to follow a strong evaluating system to ensure that everything goes well with your targets. In MA SC SU, we follow an integrated strategy called Tracking System which makes us ensure that we are on the right track. Tracking System can be divided into two main branches:

1- Members Tracking System

This system is conducted by Recruiting & Evaluating Committee which takes the responsibility of evaluating the monthly performance of all members, ensuring proper workflow between all committees, solving all problems and putting punishing and rewarding systems.

2- Leaders Tracking System

In MA SC SU, each manager has a Timeline for his plan during the season so to ensure his commitment to this timeline, a strong Leaders Tracking System is conducted by Quality Management Committee which takes the responsibility of ensuring that each manager is committed to his Timeline.

Membership

In MA SC SU, We depend on introducing a value rather than extensive disturbance marketing tools. Simply, our Membership System is based on inbound marketing tools by attracting students to us without asking them for that. In the chapter, we apply this system by dividing students into three types:

1- Students who want to have functions inside the chapter and increase their skills in other aspects like marketing, fund raising and public relations beside technical support and they are called proactive members.

2- Students who want just to have the value introduced by the chapter through having the membership card of the chapter and they are called active members.

3- Ordinary students who still outside the chapter and don't have the membership card of the chapter.

Gradation the value introduced by the chapter to the three types will enable us to convert ordinary students to active members and active members to proactive members who are our main target for pursuing them to have international MA membership by the time.

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.

Ambassadors Program

One of the most creative recruiting activities this year was "Ambassadors Program". AP is an initiative by MA SC SU to reach all students pursuing Materials Science & Engineering degree in all universities all over Egypt. The idea of the program is to have an ambassador in each university to be our voice among students of this university. AP was very successful this year by increasing chapter local membership by 20%. AP is the first step towards starting new MA chapters all over Egypt.

Record Keeping

Keeping all important records of the chapter in a safe place is the primary responsibility of The Chapter Secretary. All these records are transferred during transition meetings between incoming and out-going managers. Also, all records are scanned into electronic files with many copies to protect them from losing.

Recruiting Activities

MA SC SU had many recruitment activities during its second 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 Social Media 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.

Our Facebook page likes are more than 2200 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>



Although it was our first year, 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. We have a great development plan for the website next year to be our first communication tool with students.

<http://masusc.org/>



SPECTRUM is the main communication tool with companies and professionals through including all chapter news and accomplishments.



Monthly Newsletters sent to all members of MA SC SU to update them with upcoming events and membership offers.



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

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 Board Development 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- Meeting with chapter's advisor to discuss the new direction of the chapter with the new board.

Future Plans

our future plans are:

- 1- Making CDC-Career Development Conference a destination for all undergraduates and fresh graduates in Egypt.
- 2- Making SPECTRUM the official representative for all MA chapters.
- 3- Raising number of students holding MA international membership.
- 4- Achieving contribution in international events by our partner societies which is, (very difficult in Egypt to overcome the routine in dealing with such things)
- 5- Building the first platform connecting all Materials Science & Engineering students.
- 6- Applying Global Exchange Week between all MA chapters.
- 7-Making a huge science fair in our university to illustrate the difficult things in science with experiment



June 30, 2017

Endorsement of MA SC SU,

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 second year at our university.

The chapter has been quite active throughout this year, they managed to set short and long term goals and worked hard to fulfil a good deal of the anticipated programs and events. They have initiated a successful conference "Career Development Conference" which discussed different paths for a graduate and the required skills to enhance their early career life. They have done a great job to organize and get this conference done in a highly professional way. The chapter has also sponsored and contributed in many social events this year beside publishing the second issue of the chapter's official magazine "SPECTRUM".

In brief, MA chapter 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,

Marwa A. Abbas

Dr. Marwa Abbas

2016-2017 High Board



Ahmad Alaa

President



Ahmad El-Tantawy

Vice President



Hosam Ayman

Marketing Manager



Mohamed El-Sayed

Operation Manager



Mahmoud Megaly

Chapter Treasurer



Mohamed Abd El-Jalil

Chapter Secretary



Tharwat El-Shesheny

HR Manager