2017
INTERNATIONAL SECTION
ANNUAL REPORT
ANNUAL REPORT
ASCE LEBANON INTERNATIONAL SECTION
For the Fiscal Year October 1, 2016 through September 30, 2017

ADDRESS OF SECTION:
American University of Beirut
Faculty of Engineering and Architecture
Department of Civil Engineering, C/O Georges Saad
Bechtel Engineering Bldg. - 3rd flr. - Room 308
P.O.Box: 11-0236, Riad El Solh 1107 2020
Beirut, Lebanon

Telephone: 961-1-347952
Fax: 961-1-744462
E-mail: gtabet@cclint.com
Web Address: http://www.asce.org/Lebanon/

*NOTE
The report must be received by ASCE Headquarters, International Affairs Department, 1801 Alexander Bell Drive, Reston, Virginia 20191-4400 by November 30, 2016. You can also e-mail the report if you choose. E-mail: mmaughan-brown@asce.org

General Information
The Annual Report should summarize the Section’s activities during the past year.

This report form will record the information that will be helpful to the ASCE Board of Direction, the Region 10 Board of Governors and Headquarters staff in evaluating International Sections. Sections may supplement the requested data with additional information and pictures if they wish.
The report may also be used by officers of the Section as a management tool in developing different Section programs for the upcoming year.

REMINDER
Receipt of the complete Annual Report is required before the Society can provide each Section with its annual allotment.

1.0 ORGANIZATION

Date: January 17, 2018

Name and title of Submitter: Michel Bouchedid, Secretary

Total Number of members: 155  ACTIVE Members: 64

Section Activity Assessment:

- Active Section
- Intermittent Activity
- Inactive

How can ASCE help your Section?

- Increase interaction between ASCE headquarters and Lebanon Section by organizing visits from ASCE leadership to Lebanon Section at least once every 2 years.
- Provide benefits specific to international members other than the access to the ASCE webinars and publications.
- Provide at least one visit per year from international speakers to present on interesting and new topics.
- Consider organizing webinars that can be attended at times convenient for different time zones, such as Lebanon time zone.
- Produce a page on the main ASCE webpage that describes clearly the benefits of being an international section member and provides clear guidelines to international members on how they can benefit from the available ASCE resources.
- Enhance leadership and networking by organizing international events outside the US for international sections to meet and discuss challenges and ways to collaborate.

What are the top 3 activities that your group is planning?

1. Inter-University ASCE Student Chapters Popsicle Sticks Bridge Competition.
2. ASCE gala dinner with presentation on renewable energy and its application in the Middle East
3. Series of lectures in various civil engineering disciplines (Environmental, Structural, and Geotechnical).
4. Adopt a site in Lebanon to be incorporated by ASCE heritage committee.
Your Section’s officers are elected during the month of September

Please list the names and titles of your Section’s current officers and the terms of their service:

<table>
<thead>
<tr>
<th>Current Officer’s Name</th>
<th>Title</th>
<th>Term of Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guy Tabet</td>
<td>President</td>
<td>10/17 to 09/19</td>
</tr>
<tr>
<td>Antoine Gerges</td>
<td>President-Elect</td>
<td>10/17 to 09/19</td>
</tr>
<tr>
<td>John Khoury</td>
<td>Vice President</td>
<td>10/17 to 09/19</td>
</tr>
<tr>
<td>Georges Saad</td>
<td>Vice president for Education</td>
<td>10/17 to 09/19</td>
</tr>
<tr>
<td>Michel Bouchided</td>
<td>Secretary</td>
<td>10/17 to 09/19</td>
</tr>
<tr>
<td>Mirvat Abdallah</td>
<td>Treasurer</td>
<td>10/17 to 09/19</td>
</tr>
<tr>
<td>Jacques Harb</td>
<td>Program Director</td>
<td>10/17 to 09/19</td>
</tr>
<tr>
<td>Abdelmunim Alameddine</td>
<td>Coordinator</td>
<td>10/17 to 09/19</td>
</tr>
<tr>
<td>Ibrahim Khatib</td>
<td>Chair of the Committee for Industry</td>
<td>10/17 to 09/19</td>
</tr>
<tr>
<td>Wassim Raphael</td>
<td>Technical Committee</td>
<td>10/17 to 09/19</td>
</tr>
</tbody>
</table>

Please list the names and titles of your Section’s officers for 2017 and the terms of their service:

<table>
<thead>
<tr>
<th>Next Year Officer’s Name</th>
<th>Title</th>
<th>Term of Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guy Tabet</td>
<td>President</td>
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</tr>
<tr>
<td>Wassim Raphael</td>
<td>Technical Committee</td>
<td>10/17 to 09/19</td>
</tr>
</tbody>
</table>
Does your Section sponsor International Student Groups?  

Yes

If yes, please provide the following:

1. Number of student groups: 10

2. Indicate where the Student Groups exist:

<table>
<thead>
<tr>
<th>Name of Institution</th>
<th>Name of Faculty Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>American University of Beirut (AUB)</td>
<td>Georges Saad</td>
</tr>
<tr>
<td>Lebanese American University (LAU)</td>
<td>John Khoury</td>
</tr>
<tr>
<td>University of Balamand (UOB)</td>
<td>Najib Saliba</td>
</tr>
<tr>
<td>Notre Dame University (NDU)</td>
<td>Talal Salem</td>
</tr>
<tr>
<td>St. Joseph University (ESIB)</td>
<td>Wassim Raphael</td>
</tr>
<tr>
<td>Rafik Hariri University (RHU)</td>
<td>Riyad Al Wardiny</td>
</tr>
<tr>
<td>The Holy Spirit University of Kaslik (USEK)</td>
<td>Elie Otayek</td>
</tr>
<tr>
<td>Beirut Arab University (BAU)</td>
<td>Ayman Trad</td>
</tr>
<tr>
<td>Manar Institute of Technology</td>
<td>Walid Kamali</td>
</tr>
<tr>
<td>Lebanese University</td>
<td>Elie Awwad</td>
</tr>
</tbody>
</table>

Does your country register or license engineers?  

Yes

If yes, please attach a sample application for our records.

Please indicate the number of licensed engineers within your Section.  

147

Please provide the date on which your Section was established  

02 / 2013  

Month / Year
### 3.0 MEMBERSHIP

<table>
<thead>
<tr>
<th>Does the Section have a Membership Program to recruit new members?</th>
<th>YES</th>
</tr>
</thead>
<tbody>
<tr>
<td>If so, please describe how you recruit new members.</td>
<td>Recruitment is done mainly in events organized by the Section. When possible, the Section is also participating in events organized by other civil engineering professional groups and setting up booths to introduce the section to participants and recruit them.</td>
</tr>
</tbody>
</table>

### 4.0 MEETINGS

List successful activities, events, meetings or other activity that occurred this past year to share with other International Sections and Groups:

<table>
<thead>
<tr>
<th>Month</th>
<th>Brief Description of Meeting(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 16</td>
<td>✓ 1) Popsicle bridge competition, 2) ASCE Gala, 3) Legal Status of the ASCE Lebanon Section, 4) ASCE Student Chapters, 5) Newsletter and Website, 6) Annual Report</td>
</tr>
<tr>
<td>January 17</td>
<td>✓ 2) Popsicle Bridge Competition, 2) ASCE Gala, 3) Legal Status of the ASCE Lebanon Section, 4) ASCE Lebanon Section Logo</td>
</tr>
<tr>
<td>February 17</td>
<td>✓ 1) Popsicle Stick Bridge Competition (PSBC), 2) ASCE Annual Seminar and Dinner</td>
</tr>
<tr>
<td>March 17</td>
<td>✓ Jury Panel Planning Meeting for the Popsicle Stick Bridge Competition –</td>
</tr>
<tr>
<td>April 17</td>
<td>✓ Popsicle Stick Bridge Competition Evaluation Meeting by the Planning Committee</td>
</tr>
<tr>
<td>May 17</td>
<td>✓ Meeting with the new President of the Order of Engineers and Architects in Beirut, Mr. Jad Tabet and discuss with him the work-plan of the ASCE Lebanon Section. Elect new officers for the ASCE Lebanon Section.</td>
</tr>
<tr>
<td>June 17</td>
<td>✓ First planning meeting with newly elected officers</td>
</tr>
<tr>
<td>July 17</td>
<td>✓ Discuss the vision of the ASCE Lebanon Section with the newly elected Officers</td>
</tr>
<tr>
<td>August 17</td>
<td>✓ Discuss the draft of the ASCE Lebanon Section Constitution and Bylaws</td>
</tr>
<tr>
<td>September 17</td>
<td>✓ 1) Updates on the Bylaws and Constitution, 2) discuss the Logo, 3) discuss the plan for setting a target number for students and local engineers to enroll as ASCE Lebanon Section members in the upcoming 2 years, 4) set a plan to engage new companies in ASCE activities and meetings, 5) tentative date for the ASCE 2018 Popsicle Stick Bridge Competition (PSBC), 6) the Section’s website, 7) International conference, 8) recruitment of a Younger member Chair</td>
</tr>
</tbody>
</table>
5.0 PUBLICATIONS

Does your Section publish newsletters or other periodicals? If yes, please attach sample copies  **YES**

If yes, please list those publications and indicate which, if any, are available in English.

<table>
<thead>
<tr>
<th>Publication Name</th>
<th>In English</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Newsletter</td>
<td>YES</td>
</tr>
<tr>
<td>2. ______________</td>
<td></td>
</tr>
</tbody>
</table>

6.0 LIASON WITH ENGINEERING ORGANIZATIONS

Is your Section in touch with engineering organization(s) in your country? Please give us the name, address, e-mail address and the telephone and fax numbers of those societies, as well as the name of your contact person. Briefly describe each of the projects or activities in which you have been jointly involved.

<table>
<thead>
<tr>
<th>Name of Organization</th>
<th>Address and Telephone</th>
<th>Contact Person</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEEE Lebanon</td>
<td>Saint Joseph University P.O. Box 11-0514 Beirut, 1107 2050 Phone: 961 1 421 315 Email: <a href="mailto:hadi.sawaya@usj.edu.lb">hadi.sawaya@usj.edu.lb</a></td>
<td>Dr. Hadi Sawaya</td>
<td>Student chapters collaborations</td>
</tr>
<tr>
<td>EWB Lebanon</td>
<td>Damascus Road, Karam Bldg, 3rd Floor, Hazmieh Phone: +961 70 153119 Email: info(@)ewb-lebanon.org</td>
<td>Nader Shehade</td>
<td>Community work</td>
</tr>
<tr>
<td>Order of Engineers &amp; Architects</td>
<td>Beit al Mouhandess street Sector 47, Mar Elias PO Box 11/3118, Beirut, Lebanon Phone: 961-1-826144 Email: <a href="mailto:carlanasr@oea.org.lb">carlanasr@oea.org.lb</a></td>
<td>Mrs. Carla Nasr, Head of Cabinet</td>
<td>congresses, workshops, seminars</td>
</tr>
<tr>
<td>Federation of Lebanese Engineers</td>
<td>c/o Order of Engineers &amp; Architects Tel: 961-1-826144 Email: <a href="mailto:info@wfeo-ceie.org">info@wfeo-ceie.org</a></td>
<td>Mr. Khaled Chehab, Vice-President</td>
<td>Congress on Engineering Education</td>
</tr>
<tr>
<td>World Federation of Eng. Organiz.</td>
<td>University of Balamand, El Koura, Lebanon, 06-930250 ext. 3301 Email: <a href="mailto:munim@balamand.edu.lb">munim@balamand.edu.lb</a></td>
<td>Abdul Monhem Alameddine, Vice Pres., Committee Chair</td>
<td>Congress on Engineering Education</td>
</tr>
<tr>
<td>ACI Lebanon</td>
<td><a href="http://www.aci-lebanon.com">www.aci-lebanon.com</a></td>
<td>Khaled Awad, President</td>
<td>ACI/ACTS Competition</td>
</tr>
</tbody>
</table>
### 7.0

#### 7.1 Statement of Cash Receipts and Cash Payments October 1, 2015 to September 30, 2016

<table>
<thead>
<tr>
<th>CASH RECEIPTS</th>
<th>$ ACTUAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Money Received from ASCE</td>
<td>$876</td>
</tr>
<tr>
<td>Other Money Received (Specify)</td>
<td>$44,733 (Event’s sponsorship by companies, Universities and Order of Engineers)</td>
</tr>
</tbody>
</table>

**Total Cash Receipts**

<table>
<thead>
<tr>
<th>CASH PAYMENTS</th>
<th>$ BUDGET</th>
<th>$ ACTUAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meetings</td>
<td></td>
<td>$15,018</td>
</tr>
<tr>
<td>Educational Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stationery &amp; Office Supplies</td>
<td></td>
<td>$400</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telephone</td>
<td></td>
<td>$200</td>
</tr>
<tr>
<td>Newsletter</td>
<td></td>
<td>$400</td>
</tr>
<tr>
<td>General Printing (Excluding Advertising)</td>
<td></td>
<td>$200</td>
</tr>
<tr>
<td>Younger Member Activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Activities</td>
<td></td>
<td>$18,274 (Popsicle Bridge Competition – 10 universities, 28 teams)</td>
</tr>
<tr>
<td>Other Payments (Specify)</td>
<td></td>
<td>$40 (Bank transfer fees from ASCE-USA to Lebanon)</td>
</tr>
<tr>
<td>Other Payments (Specify)</td>
<td></td>
<td>$945 (certificates of appreciation – total of six for two main events)</td>
</tr>
</tbody>
</table>

**Total Cash Payments**

| Cash on Hand September 30, 2016 | $3,083 |
| Cash at September 30, 2017 | $13,215 |
7.0 GENERAL

Brief description of other programs, activities, projects, meetings, studies conducted by the Section during the past year:

- The ASCE Lebanon Section organized a lecture on “3D Printing in Civil Engineering” at the Order of Engineers and Architects building in Dbayeh Lebanon. In his speech, Dr. Hamzeh presented on 3D printing for civil engineering applications, specifically for concrete and ceramics. He showed various real-life applications in China and Dubai. He also summarized the research efforts conducted at the American University of Beirut starting with a class project in 2013 to developing a 3D printing machine by 2017 with the help of other engineering disciplines at the University. He also presented future projects and expressed interest in collaborating with engineering companies and other universities.
  At the end, the attendees were invited to dinner at a nearby restaurant by the President of the Order of Engineers, Mr. Khaled Chehab.

- The ASCE Lebanon Section organized its annual seminar and dinner on Wednesday March 1, 2017 at Le Royal Hotel, Dbayeh. More than 200 ASCE members and non-members attended the dinner. Dr. Hisham Joma, Chief Development Officer at Jeddah Economic City, gave a very interesting presentation on the Kingdom Tower project, which will hold more than 23 world records according to the Council of Tall Building and Urban Habitat (tallest building in the world, tallest free-standing man-made structure on earth, highest technically attainable floor, highest number of floors in a building, highest occupied floors, highest outdoor/indoor observation deck, fastest double-decker passenger elevators, longest elevator travel, tallest and fastest service elevators, deepest foundations, etc.). The event was featured by the attendance of the President of the Federation of Lebanese Engineers (FLE) Mr. Khaled Chehab, (also President of the Order of Engineers in Beirut) and the President of the Order of Engineers in Tripoli, Mr. Marius Bainy.

- The ASCE Lebanon Section organized a Popsicle Stick Bridge Competition (PSBC) on Saturday April 1, 2017 at the Lebanese American University (Byblos Campus). 27 teams (a maximum of 3 teams per University) from 10 Universities participated in the event. The total number of students in the competing teams from civil engineering and architecture was 135 and the number of participants exceeded 300 (students, faculty members, ASCE members, organizers, engineers, architects, guests, etc.). Participating Universities were: American University of Beirut (AUB), Beirut Arab University (BAU), Lebanese American University (LAU), Lebanese University (LU), Manar Institute of Technology (MUT), Notre Dame University (NDU), Rafik Hariri University (RHU), Saint Joseph University (USJ), The Holy Spirit University of Kaslik (USEK), and University of Balamand (UOB). The event was featured by the patronage of the Federation of Lebanese Engineers and the presence of its President Mr. Khaled Chehab who declared sponsoring the first three prizes (a total of US$5,000). The winning team was from Notre Dame University (NDU); the Lebanese American University (LAU) ranked 2nd and the Lebanese University ranked 3rd (LU).

- The ASCE Lebanon Section was invited to set a stand at the Engineering Job Fair 2017 (the 8th Annual Forum for Communication and Recruitment) by the Alumni Committee of the Lebanese University Faculty of Engineering Branch 2 – Roumieh. The event was held at Palais des Congrès «Dbayeh on Wednesday 18 and Thursday 19 October from 3:00 till 10:00 pm. The Job fair is dedicated to engineering students searching for employment / training opportunities; it attracts leading engineering firms and helps establishing direct links between engineers and engineering companies working in Lebanon and abroad.
Signed (may be signed electronically)

President of ASCE                                        International Section                       Date: Jan 17, 2017

President Elect of ASCE                                  International Section                      Date: Jan 17, 2017

Vice President of ASCE                                   International Section                      Date: Jan 18, 2018

Vice President for Education Georges Saad                International Section                      Date: Jan 17, 2017

Secretary of ASCE                                        Michel Bouchchedid                          International Section                      Date: Jan 17, 2017

Treasurer of ASCE                                        Mirvat Abdallah                            International Section                      Date: Jan 17, 2017
بنا على القانون الصادر بتاريخ 23 كانون الثاني سنة 1951 المرتبط بحرازولة مهنة الهندسة ونقابة المهندسين.

بما أن الاقتراح برفع المخدر رقم 8825، تاريخ 12/6/1951 الصادر عن لجنة المهندسين الميعاد من المخدر رقم 1751، تاريخ 13/9/1951

بنا على القرار رقم 1751، تاريخ 13/9/1951، القاضي بالترخيص لبعض المهندسين بحرازولة مهنة الهندسة في لبنان.

رغم السيد عبد المنعم حمود في علم الآيت من الجنسية ليست معلماً رقم المجلة 1127، مهمته الحاصل شهادة 1127 المعلقة على منحة من الحكومة للأداء المميز.

فيما يمكن للحرية لكونها النزاع في حالة من حراسة بموجب القانون رقم 1751، تاريخ 13/9/1951

لا يعمل بهذه الرخصة ولا تصفي نافذة إلا إذا كان حاملها منتمياً إلى أحدى نقابات المهندسين وفقاً للقانون.

في 15/10/1983

وزير الاتصال العامة والنقل
Dear ASCE Lebanon Section members,

Since its establishment on February 14th, 2013, the Section (then a branch) has grown significantly in membership, student chapters and events, thanks to the hard work and dedication of committed constitutional members under the leadership of past President Dr. Makram Suidan.

In the summer of 2017, the constitutional members elected new board members and officers who have been involved with and committed to, our Lebanon Section. Since its election, the new board of officers has worked on finalizing the ASCE Lebanon Section Constitution and Bylaws (http://www.asce.org/lebanon/) which established the basis for the operation of the Section and its future governance. I encourage all ASCE members to get involved in our future events, to keep their membership active and to encourage our fellow civil engineers to enroll in our section.

We would also like to see volunteers from different civil engineering disciplines involved in planning our events. This provides an opportunity to network and meet professionals from other organizations while serving the ASCE Lebanon Section.

I look forward to taking our section to another level during this new term and wish all a great year.

Sincerely,

Guy Tabet,
President of the ASCE Lebanon Section

ASCE LECTURE ON 3D PRINTING IN CIVIL ENGINEERING, OCTOBER 2016

The ASCE Lebanon Section organized a lecture on “3D Printing in Civil Engineering” at the Order of Engineers and Architects building in Dbayeh Lebanon.

ASCE President Dr. Makram Suidan began the event by welcoming the audience and emphasizing the role of the ASCE Lebanon Section in bringing engineers, professors and students from various sectors and academic institutions together. Afterwards, Dr. Suidan introduced the President of the Order of Engineers in Beirut, Mr. Khaled Chehab, who stressed the role of the Order of Engineers in securing high academic standards for graduating engineers, and the importance of the colloquium that will be soon set as a requirement to join the syndicate of engineers. He also thanked the ASCE Lebanon Section for its role in propagating the culture of professionalism and societies specifically among university students.

The guest speaker, Dr. Faroak Hamzeh was then introduced by President Suidan. In his speech, Dr. Hamzeh gave a presentation on 3D printing for civil engineering applications, specifically for concrete and ceramics. He showed various real life applications in China and Dubai. He also summarized the research efforts conducted at the American University of Beirut starting with a class project in 2013 to develop a 3D printing machine by 2017 with the help of other engineering disciplines at the University. He also presented future projects and expressed interest in collaborating with engineering companies and other universities.

At the end of the event, the attendees were invited to dinner at a nearby restaurant by the President of the Order of Engineers, Mr. Khaled Chehab.
ASCE ANNUAL SEMINAR AND DINNER, MARCH 2017

The ASCE Lebanon Section organized its annual seminar and dinner on Wednesday March 1, 2017 at Le Royal Hotel, Dbays. More than 200 ASCE members and non-members attended the dinner. Dr. Hisham Joma, Chief Development Officer at Jeddah Economic City, gave a very interesting presentation on the Kingdom Tower project, which will hold more than 23 world records according to the Council of Tall Buildings and Urban Habitat (tallest building in the world, tallest free-standing man-made structure on earth, highest technically attainable floor, greatest number of floors in a building, highest occupied floors, highest outdoor/ indoor observation deck, fastest double decker passenger elevators, longest elevator travel, tallest and fastest service elevators, deepest foundations, etc.).

Dr. Joma was awarded a Certificate of Appreciation by the ASCE Lebanon Section for his contributions. Afterwards, a dinner was held. During the dinner, two lifetime achievements awards were given by the ASCE Lebanon Section for Professor Georges Ayoub from the American University of Beirut (his professional career spans more than 60 years) and Dr. Zuheir Alami, co-founder and chairman of the board of Khatib & Alami international consultancy firm.

The event was dignified by the attendance of the President of the Federation of Lebanese Engineers (FLE) Mr. Khaled Chehab, (also President of the Order of Engineers in Beirut) and the President of the Order of Engineers in Tripoli, Mr. Marius Bainy. Note that an Agreement of Cooperation (AOC) was signed on March 15, 2016 (valid for 3 years) by the American Society of Civil Engineers (ASCE) and the Federation of Lebanese Engineers (FLE) with the goal of promoting mutual cooperation and shared activities.

At the end of the proceedings the President of the Federation of Lebanese Engineers (FLE), Mr. Khaled Chehab presented the Distinguished Engineer Award to President Suidan.

Dr. Suidan presenting a token of appreciation to Dr. Hisham Joma
Dr. Suidan presenting the Lifetime Achievement Award to Professor Georges Ayoub
Dr. Suidan presenting the Lifetime Achievement Award to Zuheir Alami
President Chehab presenting the Distinguished Engineer Award to President Suidan
Pictures from the dinner
POPSICLE STICK BRIDGE COMPETITION, APRIL 2017

The ASCE Lebanon Section organized a Popsicle Stick Bridge Competition (PSBC) on Saturday April 1 at the Lebanese American University (Byblos Campus). Twenty-seven teams (a maximum of three teams per university) from 10 universities participated in the event. The total number of students in the competing teams from civil engineering and architecture was 135 and the number of participants exceeded 300 (students, faculty members, ASCE members, organizers, engineers, architects, guests, etc.).

Participating universities were: American University of Beirut (AUB), Beirut Arab University (BAU), Lebanese American University (LAU), Lebanese University (LU), Manar Institute of Technology (MUT), Notre Dame University (NDU), Rafik Hariri University (RHU), Saint Joseph University (USJ), The Holy Spirit University of Kaslik (USEK), and University of Balamand (UOB).

The event was sponsored by the Federation of Lebanese Engineers and was attended by its President Mr. Khaled Chehab who announced sponsorship of the first three prizes (a total of US$5,000). The winning team was from Notre Dame University (NDU); the Lebanese American University (LAU) ranked second and the Lebanese University ranked third (LU).

Success of the event was ensured by the presence and support of sponsors (Associated Consulting Engineering ACE, DAR Group, Khatib & Alami, Dar Al-Handasah Nazih Taleb and Partners, RAMCO, MAN Enterprise, TADEEM Geotechnical Engineering and Derwich Haddad CCL). Each sponsor had a booth to reach out to students and to introduce them to common practices. The ASCE Lebanon Section also provided organizers and students with T-shirts bearing the logos of the ASCE and sponsors as well as hard hats and safety glasses to promote safety.
ASCE LEBANON SECTION AT THE ENGINEERING JOB FAIR (AULHG2)

The ASCE Lebanon Section was invited to take a stand at the Engineering Job Fair 2017 (the 8th Annual Forum for Communication and Recruitment) by the Alumni Committee of the Lebanese University Faculty of Engineering Branch 2 – Roumieh. The event was held at “Palais des Congrès” Dbayeh on Wednesday 18 and Thursday 19 October from 3pm till 10pm.

The job fair is dedicated to engineering students searching for employment / training opportunities. It attracts leading engineering firms and helps establish direct links between engineers and engineering companies working in Lebanon and abroad.
STUDENT CHAPTER NEWS

ASCE SUMMER VOLUNTEERING CAMP 2017

AMERICAN UNIVERSITY OF BEIRUT (AUB)

The “ASCE and Credit Bank Summer Volunteering Camp 2017” was held in the Batroun district North of Lebanon. With the help of 70 participants and under the supervision of coordinators Mahmoud Kobeissi and Ali Ismail, four different sites (Heri, Kfour al Arabi, Kfarhay and Iran) were renovated.

The Heri site was an abandoned piece of land, located behind the Municipality, overlooking the sea. A public garden was built, along with a play structure designed for both kids and adults. The entrance of the Kfour Al-Arbi village was improved with the addition of two sidewalks and a small garden. At Kfarhay, the basketball court and the locker rooms were renovated. The basketball court was the only public one available for multiple villages. In Iran, a 1.5 m x 40 m wall was constructed along one side of the basketball court. The wall will protect the players from accidentally falling into the valley.

FIELD VISIT TO GEOTECHNICAL SITES

NOTRE DAME UNIVERSITY (NDU)

On Saturday October 21, the ASCE Student Chapter at Notre Dame University (NDU) organized a field trip to three different geotechnical sites under the supervision of expert geotechnical foundation companies. The construction sites visited were in Antelias and Zouk Mosbeh. Field work consisted of stabilizing earth slopes, excavating and preparing the ground for residential buildings. This provided great knowledge and experience to students who attended.
WELCOMING

UNIVERSITY OF BALAMAND (UOB)

The ASCE UOB Student Chapter organized a welcoming by its officers on Thursday November 3, 2016. During the event, officers introduced new students to the society and its functions. A lecture on 3D printing in civil engineering was also given by Professor Georges Awad.

FIELD TRIP TO WATERFRONT CITY, DBAYEH

UNIVERSITY OF BALAMAND (UOB)

The ASCE UOB Student Chapter organized a field trip to one of Lebanon’s most prestigious mega-building sites, the prominent Waterfront City Dbayeh. More than 30 civil engineering students attended the field trip, during which a detailed tour of the construction site was given. Students got the chance to learn more about different construction stages including safety arrangements, concrete casting, slab post-tensioning, finishing, etc.

FUNDRAISING EVENT

LEBANESE AMERICAN UNIVERSITY (LAU)

A Christmas fundraising was held by the ASCE-LAU Chapter in collaboration with the Dean’s Office, as part of the Chapter’s mission to serve its community.

ORPHANS TRIP

LEBANESE AMERICAN UNIVERSITY (LAU)

Orphans were also invited to LAU and were introduced to university life and the importance of education. ASCE-LAU student members socialized with the kids and answered all their questions and concerns.

FIELD TRIP TO STEEL FACTORY

RAFIK HARIHI UNIVERSITY (RHU)

RHU-ASCE student chapter organized a field trip to the Dalal Steel Factory in Bekaa. Also, it hosted a seminar on construction practice in Lebanon and the role of third party engineering firms and laboratories (by Dr. Mohamad Dokmak from TQP, Material Testing and Consultancy Company).

ASCE Students, Chairperson Dr. Ahmad El-Hajj and Group Advisor Dr. Rad Al Wardany with the Plant Supervisor, Eng. Mansour Marwadi at Dalal Steel Factory
NEW CHAPTER

BEIRUT ARAB UNIVERSITY (BAU)

GATHERING AT SWINGS

UNIVERSITÉ SAINT-JOSEPH (USJ)

The new ASCE committee organized a gathering on June 17 for students and faculty members at Swings Camping – Zaraoun. The purpose was to introduce the student chapter program for the year 2017-2018.

CLUBS’ DAY

UNIVERSITÉ SAINT-JOSEPH (USJ)

The ASCE – USJ Student participated in the “Clubs’ Day” on October 12 to recruit new members, renew older memberships and present the plan for the ongoing academic year. A stand was prepared to welcome interested students and, a competition was held in a friendly atmosphere where students had to answer civil engineering and general knowledge questions.

GATHERING FOR STUDENTS

HOLY SPIRIT UNIVERSITY OF KASLIK (USEK)

On October 1 ASCE-USEK organized a gathering for its members. Many activities including competitions, fun events and a barbecue took place that day. The chapter also arranged a conference on the importance of enrolling in the ASCE student chapter.
COMPANIES’ NEWS

KHATIB AND ALAMI SPEAKS DIGITAL TRANSFORMATION AT DTME 2017

Khatib and Alami (K&A) was the gold sponsor of the Digital Transformation Middle East 2017 conference (DTME 2017) that was hosted on September 8 and 9, 2017 by the American University of Beirut (AUB) together with Knowledge Practices International (KPI). DTME 2017 is the region’s first conference tapping into the power of digitalization which is reshaping industries from every financial, media and entertainment, retail and hospitality, educational, and governmental aspect.

The DTME conference got into its stride on the second day, focusing on the benefits of technology integration in the education sphere. Ms. Greta Keiz, Operation Manager of Esri Lebanon, K&A’s sister company, took part in the EduTECHPanel, showcasing Esri Lebanon’s GIS Awareness for Schools program where technology and education come together to inform secondary students about this new science: the science of where.

This unique conference brought together international industry experts of the digital world and the Lebanese and Middle Eastern audience, highlighting the importance of embracing and adapting this transformational change in order to prosper long into the future.

MAN ENTERPRISE’S ROLE IN LEED TARGETING PROJECTS

LEED, a registered trademark of the US Green Building Council (USGBC), is a green building certification system that provides third-party verification to measure how well a building performs across the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impact. Points are awarded to meet LEED criteria per the following scale: certified, silver, gold, and platinum. The LEED certification requires that both the design and the construction team adhere to certain concepts and thresholds that are challenging in five categories:

- Sustainable Sites
- Water Efficiency
- Energy and Atmosphere
- Materials and Resources
- Indoor Air Quality

MAN Enterprise has been the general contractor on several green building projects and has contributed greatly to their certifications. There are a variety of strategies that have been successfully implemented.

From left to right: Mr. Mohamed Saad - IT Director
Ms. Greta Keiz - Esri Lebanon and Mr. Holham Albu Hamdan - IT Planning Manager

District/Lebanon
LEED for neighborhood development
TEAM INTERNATIONAL PROJECTS

Team International worked on the urban design for the upgrading of El Mina Corniche in North Lebanon. The project was supported by UNDP Lebanon and the beneficiary was El Mina Municipality.

![El Mina Corniche, North Lebanon](image)

Team International also worked on the rehabilitation of a 90-km section of the Silk Road in Kyrgyzstan near the Chinese Border with the Ministry of Transport and Roads (MOTR) in the Kyrgyz Republic.

![Road after rehabilitation](image)

Team International supervised the construction of the Jdita Viaduct for the Mdeirej-Taanayel Section of the Arab Highway.

![Jdita Viaduct, Lebanon](image)

DAR GROUP PROJECTS

THE BIDIBID-SUR MOTORWAY

Six new landmark bridges are being constructed in Oman as part of the Bidibid-Sur motorway, a project that expands the existing road between Bidibid, an inland town west of Muscat, and Sur, the main town of the Sharquia South governorate. Some of the bridges are 100 m high and span as much as 90 m.

Dar’s scope is limited to one section of the project, Section 1, itself comprised of two packages: 1A and 1B. Package 1A covers the first 40 km of the road including the six balanced cantilever viaducts and a number of urban flyovers. Package 1B covers the last 75 km of Section 1, including one major bypass, one minor bypass, and nine interchanges.

Balanced cantilever is a bridge construction technique that uses decks that project horizontally into space, symmetrically about their support. The box girder section is the bridge deck main beam that has the shape of a hollow box. Shear keys (concrete protrusion into an adjacent box-out) provide shear force continuity.

![Precast concrete box section](image)

![Balanced cantilever arms - 45 m each side](image)
CCL PROJECTS

WATERFRONT CITY, LEBANON

Waterfront City is a luxurious mixed-use community development which when completed will include residential apartments, a large retail mall, two international hotels and a business park.

As post-tensioning subcontractor, DHPPB has had continuous involvement with all three stages of the project – stage three is still ongoing. Scope of work includes the preparation of the structural design and shop drawings and the supply and supervision of the CCL post-tensioning system.

JDITA VIADUCT, JDITA, LEBANON

Part of the Pan Arab Highway project, the Jdita Viaduct roadway consists of two carriageways – the left measuring 13 spans, and the right even larger, at 14 spans. Each span contains 10 precast post-tensioned, I-shaped beams: equalling 270 beams in total.

DHPPB provided all precast beams for the project, and carried out the post-tensioning followed by the installation over piers and abutments using DHPPB’s own launching girder.

TADEEM PROJECTS

TADEEM is currently performing geotechnical work for the new Dbayeh Municipality with TOHME Contracting and ERGA Group. Similar shoring works are being carried out in the Ghazir industrial area. To meet specific project requirements, TADEEM created a unique lateral support system, exclusively designed using fixed-end steel beams, when conventional methods proved to be unsuitable: tiebacks could not be used and internal bracings were not financially feasible.

ASCE Lebanon Section: Back: Past President - Makram Suidan, Front, Left to Right: Antoine Gerges - President Elect, Guy Tabet - President, Mirvat Abdallah - Treasurer, Michel Bouchchedid - Secretary, John Khoury - Vice President. Not photographed: Georges Saad – Vice President for Education.
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The ASCE Newsletter is produced with the help of CCL, providers of specialised engineered solutions for structures.

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