INVESTIGATIONS

CIVIL NEWS

Why was there no elections in the CES this year?
Written by Ghida Ismail

The CES cabinet usually formed of 8 cabinet members; each of the four years has two representatives. The representatives are elected at the beginning of each year in a democratic manner. Then within the cabinet, each member will receive a function that includes President, Vice president, Secretary and Treasurer. Nonetheless this year, to the student’s dismay, the CES did not hold any elections. In fact the CES advisers, Dr. Majdi Abou Najm, Dr. Ghassan Chehab and Dr. George Saad decided that all the students that presented themselves as candidates for the elections will be comprised in the cabinet, establishing a cabinet of 16 members instead of 8. Moreover instead of having a President for the cabinet that will oversee all the events, it will be the advisers’ role to directly supervise the cabinet’s activities. What was the reason behind this decision? “Based on circumstances that prevailed just prior to the CES elections and that threatened to inject political and sectarian divisions in the CES, the Advisory committee was faced with two options,” explained Dr. Chehab, one of the CES advisers, "either dissolving the CES altogether or adopting an appointment strategy that would assure continuity of the club as a united, student-run, professional organization whose goals are to foster the Civil Engineering profession and prepare the Civil Engineering student body to become World Class Engineers. Any direct or covert attempts to politicize the club in the future will force the Advisory Committee to dissolve the CES." In fact the “circumstances” that Dr Chehab mentioned above involved the fourth year candidates in the CES elections, Nihal Abu-Ghalli, Elias El Haber, Jad Sibat and Ramzi Taybah. Abu-Ghalli does not believe there was any political intervention and struggle, " no one of us four intended to bring politics," she said.

In her opinion, the problem originated from the fact that the advisors didn’t want to risk losing the efforts and experience of any of the candidates in the case where he/she lost in the election, “especially Ramzi and I, since we have been previously in the CES cabinet.” She also added that “students had registered in CES to vote for their two favorite candidate and the bylaws of the CES state that only two members from each year should be in the cabinet. However the advisors decided to include all. Regardless of the circumstances it is my belief that from the first place we should have abided by the CES bylaws to eliminate any potential struggle or bad reputations for CES. At the end of the day bylaws were put to insure no problems or controversies takes place.”

On the other hand, students were not pleased with the situation, many of them expressed their disapproval to the advisers having appointed by themselves the CES cabinet members. “It is unacceptable” said civil engineering student Elie Moussalem. He added that the advisors should have held elections for the CES and everyone should accept the results that come out of it, or else if there’s no elections, then why not put all the students next year in the cabinet, that way maybe everyone will be pleased.

What is the deal with the new regulations in the department?
Written by Ellen Francis

In order to remedy the situation and address the increasing number of students, the department has implemented some reforms and program updates to guide people into following the right schedule and taking the correct classes at their intended time. This has resulted in significant uproar as a lot of concerns have been voiced about the new prerequisites and guidelines and their recent implementation. Two examples of the new requirements are: CIVE 351 (Environmental Microbiology), or an equivalent biology course, is now a prerequisite for CIVE 431 (Soil Mechanics). All CIVE 400-level courses have become prerequisites for the Final Year Project, whereas previously some of them, such as CIVE 441 (Hydrology) and CIVE 460 (Highway Engineering), were not.

“I was suddenly informed after registration of two new prerequisites and so I had to take these courses immediately to remain on track. One of them is CIVE 351, which has newly become required for CIVE 431 and which they are not offering next semester, so I was obliged to take biology instead,” said civil engineering student Hagop Harfouchian, “what I don’t understand is that the courses I am now forced to take are not logical prerequisites to any other courses. I will have finished all the CIVE 400’s courses by the end of my third year, so why are courses like ENMG 400 being enforced as prerequisites for the Final Year Project.”

[Continued on page 2]
What is the deal with the new regulations in the department? 

(Continued from page 1)

While these changes might serve to improve the overall education system, students were informed of them at barely a moment’s notice, and some even after registration had begun. These prerequisites are not found on the AUB website, neither in the undergraduate catalogue nor in the CEE Student Manual.

Emile Daou a third year civil engineering student stated that there is no reason to enforce these regulations on students who are already in their third or fourth year because it has the potential to hinder their future plans and their ability to graduate on time. “Personally, I have planned my courses extremely meticulously at an OCD-level long ago, and then they change the guidelines at a moment’s notice. That’s extremely unfair,” added Daou.

The department should consider the difficulties faced in registering student’s necessary courses and planning out every semester accordingly. They should also acknowledge that if students have, at some points, deviated from the previous “recommended” schedule, it is not out of laziness or bad faith, but because the system failed them repeatedly and they were left with no choice.

Dr. Muttassem Fadel, the chairman of the Civil and Environmental Engineering department, made some clarifications and declared that “The Department will make every effort to ensure on-time graduation but cannot offer any guarantee to those who fail courses along the way and/or are transfer students.”

The students are not questioning the soundness or the intentions behind any of the program updates, but rather the way and the timing at which they were implemented.

“They should have told us sooner, at least in the Fall semester of second year, about these prerequisites and guideline so we could plan accordingly and manage our courses for the third and fourth years,” said civil engineering student Lala Dekassian, “for example, I hadn’t taken English 206 yet and suddenly it became a prerequisite for all my future courses, something we only found out after summer registration had passed. So all the sections had closed up, and I hit a dead end. At the end of the day, it’s poor planning.”

Civil engineering student Ruba Rizk explained that for her the best part about being in a university was being able to freely choose the courses and timing that will allow her to perform better as a student, “unfortunately that freedom is not an option anymore.”

“I still believe that we should stick to the curriculum that was valid the year before we became AUB students,” added Rizk, “no one is questioning the reason behind these changes because our professors surely know what is best for us, however we were not given a fair chance to prepare for and deal with it.”

Why aren’t Civil Engineering students allowed to take technical electives outside their Major & intern in consulting?

Written by Frederic Abou Jaoude

In the Faculty of Engineering and Architecture in the American University of Beirut, Civil Engineering students are to date not allowed to take technical courses outside their major unless they are permitted to complete their internship in the consulting field unlike other engineering students. As a matter of fact, both the departments of Electrical Engineering and Mechanical Engineering, allow their students to complete their internship in consulting firms such as Booz&Co without it being technically related to their majors. Moreover Electrical and Computer Engineering (ECE) students along with Computer and Communication Engineering (CCE) students are offered Business and Marketing courses as technical electives.

Numerous civil engineering students at AUB expressed their discontent concerning these claims. “It’s not fair how other engineering students from the electrical and mechanical departments are able to intern in consulting while civil students are denied this right,” said a third year CEE student who wished to remain anonymous, “all engineering pupils should be treated equally.”

Moreover, third year civil engineering student Hussein Hachem stated that the students should be given at least one elective outside the civil engineering major. “Since technical electives are meant to broaden the students’ knowledge in fields of interests, it is not a good idea to narrow down students’ choices and limit them to civil engineering courses only,” explained Hachem.

However, Dr. Muttassem Fadel, Chairman of the CEE department assured that the above statements are invalid.

How do the salaries offered to Research and Teacher Assistant students in AUB compare to those offered to students abroad? 

Written by Maher Said

According to Dr. Fadel, “CEE students are allowed to intern in consulting firms and even [in] academic institution [such as] research labs.” Institutions that accept many civil engineering students annually for consulting internships include Dar Al-Handaseh and Khatib & Alami and that “they have been doing that for decades,” the chairman added. He pointed out that only construction engineering students are not permitted in consulting given the nature of their degree which requires an on-site internship. Nonetheless the consulting work should be in relation to the civil engineering field explained the chairman. In fact he said that is out of the question that a civil engineering student would graduate without having experienced an internship in his/her major.

On the other hand, Dr. Fadel stated that the department has recently started introducing technical electives for CEE students outside the CEE field. “The first course [instrumentation] was just approved this year and few 4th year students are taking it this spring, [and another course] related to Electro-Mechanical systems in buildings will start next year, [as well as the GUS elective which is not necessarily a CEE major course and is being developed further],” he said. Furthermore, the optimization course, also known as operations research, is counted as a management elective for civil engineering students.

Thus as a starting point the department is allowing civil engineering student to take one technical elective outside the civil engineering field but should nonetheless be an engineering course (electrical, mechanical, engineering management courses). The chairman added that the department might consider later on accepting Business and Marketing courses as technical electives.

Stipends – or salaries – given to Master’s students through the GA (graduate assistant) or RA (research assistant) programs are minimal and rather unsatisfactory according to several Civil and Environmental Engineering Master’s students.

Although GA employment covers for tuition, students receive a payment of merely $600 L.L./month in addition to tuition – for 3 credits – every 28 hours of work per month. This stipend sums up over the semester to be less than the other payments the students have to make to AUB, such as those for the health insurance plan and the technology fee.

The RA program, on the other hand, does not cover the tuition but allows students to receive a stipend of 450,000 L.L./month for every 28 hours of work per month. Such values compare poorly to universities in the United States. An AUB alumna currently pursuing a Master’s degree at the Cockrell School of Civil, Architectural and Environmental Engineering at the University of Texas at Austin states that, as a research assistant, her tuition – for 9 credits – is fully covered along with a $2,200/month stipend for 80 hours of work per month (equivalently to 1,155,000 L.L. for every 28 hours of work per month).

Civil News distributed a survey among Master’s students in the Civil and Environmental Program questioning them regarding their satisfaction with such stipends. Out of the respondents, 70% of the students are unsatisfied with the stipend they receive through the GA program and 59% are unsatisfied with the stipend they receive through the RA program.

When interviewed on the matter, Dr. Suidan, the Dean of the Faculty of Engineering and Architecture, discusses that, although the GA stipend is currently small, the student is given an opportunity to go through the graduate program tuition-free, saving about $26,000 worth of tuition payments (which is less than what the University of Texas at Austin covers as tuition per student as stated by another AUB alumnus). As for the RA stipend, he discusses that research funding granted to projects is limited. This limitation in funding is the purpose behind the limited salary given to research students. However, Dr. Suidan mentions that (Continued on page 3)
ACTIVITIES AND EVENTS

CES Halloween Happy Hour
Written by Ghida Ismail
Photos by Rayanne Mrad

As traditionally, the first event of the Civil Engineering Society this fall was the Happy hour. Its theme was Halloween. In fact it took place on Halloween day, Thursday the 31st of October at the Bechtel Terrace at 12h30 pm. Pizzas and refreshments were served. Furthermore, for the first time during a Happy hour, games were played with the professors such as “Pull the rope.”

Reina Tabbara a Civil Engineering student and member of the CES cabinet, describes the Happy Hour as “indeed a happy hour” where the crowd is always happy. “Good food, good people, friends, professors laughter, conversations, that’s exactly what comes to my mind when I think of the CES Happy hour!” said Tabbara, “It’s an awesome one hour get away, you just forget about all your university stress and have some fun!”

Fourth Year Civil Engineering student Elias El Haber added that the CES Happy hour proves that “civil engineers can be funny and professional.”

How do the salaries offered to Research and Teacher Assistant students in AUB compare to those offered to students abroad?

[Continued from page 2]
The Civil Engineering Society (CES) organized a Graduate Seminar on November the 21st 2013 in ELH, Bechtel. The seminar was hosted by different faculty members, each representing a civil engineering field.

After completing four years of undergraduate studies, fresh civil engineers stand at a crossroads, wondering what step should be next; especially in a realm as vast and wide as the civil engineering industry. As a means of answering some of these questions, and clearing out some of their confusions, the Civil Engineering Society held the Graduate Seminar, where several professors from diverse fields in the CEE department shared their experiences.

**Construction Management Industry**

The first guest speaker was Dr. Issam Srour, who narrowed his discussion to the construction industry, which he believes will employ more than 50% of the graduates. Dr. Srour went straight to the point saying; “In the ideal world, there is an advantage in going out to the industry and working for a few years before you go to your Masters.” According to him, this allows the graduates to gain maturity to know which area they’d like to specialize in and hence know what to get out of their Masters. Such an experience would allow them to relate the material taught in their Masters to their work, better than any other fresh graduate. On the other hand, he mentions one disadvantage of such a decision. He believes that sometimes we get carried away with other responsibilities and payments we have to make and thus won’t be able to make the shift back to being students. Dr. Srour ended his discussion by saying that this decision or activity should be made in a way that it contributes to our overall goal in the coming years.

Another guest speaker was Dr. Farouk Hamze. He started by showing students that the ranking of Graduate Schools varies from one source to another. Thus, one cannot firmly label a school as the “Top 1.” Dr. Hamze also confirmed that as an Alumnus of an American School, he will always consider Schools in the U.S better than those in Europe. By emphasizing what his colleague Dr. Srour said, he confirmed that the Construction & Management field is very prosperous in the Middle East, as more than half of the students are ending up in it after graduation. Dr. Hamze considers the Construction & Management Program at AUB a great program if one is bound to stay for Grad school here. He also pointed out that AUB is one of the few schools to hire up to four faculty members in this program. The faculty members’ strong diverse research backgrounds, make them complementary to each other, and form a strong basis for the program.

**Transportation Field**

After that, Dr. Maya Abou Zeid gave four pieces of advice from her personal experience in graduate studies. First, take diverse courses and don’t limit yourself to your area of studies. Take courses in economics, operational resources and make yourself marketable. Second, if you plan to pursue Masters or PhD, do it with different professors and different topics. “You will learn much more with two professors and two different topics.” Third, take a break before or after the Masters, or in between the Masters and the PhD. “I took 2 years and a half between the Masters and the PhD. I couldn’t continue studying straight after Masters. I did several internships which helped me have a more mature idea about my field.” Fourth and last, don’t take advice from your mistakes, Dr. Abou Zeid pointed out the various fields of transportation, which go from urban transportation, traffic engineering, operational research/urban operation, behavioral decisions, public transportation and air transportation, which is a field by itself. (Airport, airline schedule, logistics and supplies.) The transportation field, found under the CEE department at AUB, is multidisciplinary and could be found under other departments. It requires notions of planning policy, economics, statistics, operational research, and psychology and computer science. Like any other engineering field, the transportation field has two Master options: without thesis (1 year) or with thesis (2 years.) Similarly, two PhD programs are found, the regular one straight after the Masters and the accelerated one, just after the Bachelor. For the research programs, they can be funded. Dr. Abou Zeid concludes by saying that the best way to really know about the graduate programs, is to get in contact with the current graduate students at AUB.

**Materials Programs**

The following speaker was Dr. Ghassan Chehab who also tackled the topic from his specialty and narrowed it down to pavements. He emphasized that the pavement/material program is limited to certain universities and is not hosted in all schools. He also assured that this program is very wide itself, as it could be Structures oriented, Computational Mechanics oriented or Construction Management oriented.

Dr. Chehab was one of the few to encourage students to pursue their Masters at AUB. Assuring that the ranking of a University is not as important as the Doctor a student works with, he emphasized that the program at AUB offers nothing less than any program in the U.S. “A masters is not worth the $60,000 you pay, as long as you can do it here while receiving $500-600 monthly” said Dr. Chehab. He ended his lecture elaborating more on that topic and later the floor was opened to questions.

**Environmental Engineering Field**

The last speaker was Dr. Majdi Abou Najem. He elaborated on the water and environmental engineering field, stressing on its importance by saying “we all drink water, we all eat food.” This field directly tackles water pollution, making it clean and drinkable by using water resources management. “When it comes to food, this field involves solid waste management, design of compost plants, recycling facilities and incinerators. Food and water are directly interrelated, as shown in the food water energy theory” said Dr. Abou Najem.

At AUB, graduate studies are available in water resources and in environmental engineering. Projects such as harvesting water from the atmosphere, or transforming the kinetic energy of sea waves into other forms of energy, or even salt water intrusions due to climate change for instance, are mainly tackled as graduate research projects. In this context, the hard cores of water and environmental engineering are always salt remediation, waste management and dealing with pharmaceutical and other kinds of pollutants. Having introduced the field, Dr. Abou Najem pointed the available graduate studies options. He stated that AUB offers excellent Master studies, as he took that option and got enrolled in one of the best universities for his PhD, even 5 years after completing his Master’s degree.

Abroad and notably in the U.S., the environmental and water fields might be included under domains different than the civil engineering one. In fact, the environmental and water fields might be found under public health, geography, ecology etc. Instead of looking at the ranking of the program, which won’t really matter eventually, Dr Abou Najem also insisted on looking at the Professor one will be working with.

Students need to know that “sometimes you plan and plan and plan, not knowing the plan is already being made for you.” Dr. Abou Najem wrapped it up saying that the best advice that anyone could give regarding graduate studies and more generally, anything in life, you must always keep in mind that “whatever you do, give it your full heart, give it a 100%”.

All you need to know about CEE Programs: The CES Graduate Seminar.

Written by Christelle Al Haddad and Lynn Farran

Photos by Nihal Abou-Ghali
As the Holidays season approaches, one cannot help but think of the less fortunate who cannot afford to have a healthy meal nor to buy warm clothes. Thus the CES organized a charity bake sale on Thursday December 5. A stand was put up at the Bechtel entrance from 8 am till 5 pm and many cabinet as well as non-cabinet members volunteered to bake various kinds of cakes and cupcakes and sell them.

“We were inspired by people’s willingness to participate and donate money for the sake of spreading holiday joy for those who are less fortunate,” said CES cabinet member Nihal Abu Ghali, “So we decided to make the bake sale and thanks to all who participated we were able to gather around 900 000 L.L.”

All earnings went to Syrian kids residing in the West Bekaa region. AMAL association worked on sending these kids during the afternoon to the school “Motawasitet Kamed el Lawz el rasmiye” in order for them to receive a proper education. “They are 350 students and they are divided into 3 categories according to their age, the association has hired teachers for them,” explained Dima Hassanieh, a CES cabinet member.

The Annual Christmas Diner

Written by Ellen Francis
Photos by Beiruting.com

This year’s annual FEA Christmas Dinner was hosted by all the FEA societies and the FEA SRC. It was held at the Hilton Metropolitan Hotel this year, on the 21st of December, with over 350 attendees. The dinner was exclusively sponsored by PETROFAC. Nonetheless prizes for the tombola were offered by restaurants such Sit el Habayeb, Fritz, Sime El Baher, Le Sam and Universal and places such as Les Roux in Hadath and Le Chocolatier, last but not least a trip to Greece for two was also part of the prizes.

“It was amazing to be part of the organization of such an event,” said Civil Engineering student Jad Sabra and head organizer of the dinner, “to create a nice environment where people can enjoy being together at Christmas time. I loved it!”

“It was the first time it took place after our finals so we could have the chance to let loose and relax, stress-free,” added Construction Engineering student Omar El Khatib, “We really enjoyed the night and everything was perfect: the music, food, ambiance…"
ALL YOU NEED TO KNOW ABOUT INTERNSHIPS

All you need to know about internships in the Civil Engineering Department.

Written by Anthony Daou

As a student of Civil and Environmental Engineering at the American University of Beirut (AUB), one is required to complete a two months internship either as a research assistant at an approved university or as an intern at a reputable engineering company. Either with the help of the faculty of engineering and architecture (FEA) career center or through personal effort, a training position should be secured by the students coupled with a satisfactory performance that is later judged based on the due internship reports and presentations.

Research Assistant.

To begin with, research assistantship positions are usually obtained through the help of the FEA career center whereby a close relationship between AUB and the respective universities significantly facilitates the approval process. This type of internship is advised for students who have a clear view of what they want to take away from academics and are certain of their will to pursue higher education such as a Master Degree or a PhD. In addition, such a training position further defines one’s research interests and improves one’s chances of being accepted into the respective university.

In case one finds research as a potential choice for an internship, s/he is to consider universities in the US, the hub for groundbreaking studies, or consider other viable options. A student in such a position should establish a good relationship with the professor, who if impressed by the student’s work might provide a recommendation letter or even provide a sponsorship opportunity. Furthermore, a crucial point to take into consideration if one is looking to benefit from this experience is to be passionate about the research topic or else the time spent will bring the student little added value. One must keep in mind that most of the times an internship in a university is unpaid, the different costs and expenses are not covered by the professor. The university might not provide any accommodation, thus the student will be responsible for securing a place to stay in during the summer.

Fourth year Civil Engineering student Hamza Jaffal who completed his internship at the University of Texas (UT) at Austin in the geotechnical field described it as a “great experience.” He explained that the life in Austin is “easy” and “safe” and everyone is very “helpful” including the professor he was working for and his graduate assistants.

In addition to technical things, I learned more about respecting the law: how it could make life much better,” said Jaffal, “I was in direct contact with people from different places in the world and I experienced a new lifestyle. This changed lot of things in my personality and the way I perceive different issues. Especially that this was the first time I travel to a foreign country in my life.” Jaffal is considering pursuing his graduate studies in UT.

Work in a Company.

An internship in the industry might require more personal effort as many companies are not in direct contact with the career center. This type of experience introduces the student to difficulties of the workspace and provides a sweet yet sour taste of reality.

If work is the choice of preference, options such as contracting or structural design first come to mind but a third interesting alternative that should be considered is technical control. Contracting will provide the intern with general knowledge in design, planning, cost control, materials procurement, contracts, quantity surveying and quality control as well as an in depth experience with construction site work. On the other hand, structural design will provide the trainee with a technical edge whereby crucial knowledge of the role of each element as well as of how each type of structure acts and reacts will be obtained. Last but not least, technical control provides the intern with specific guidelines on how to control quality and safety from the conceptual phase of the project and up to the end of the liabilities period.

Fourth year civil engineering student Raseem khouja describes his internship in the engineering firm TERRA as a “memorable and exciting opportunity." “Concerning work, I must say that I experienced sincere professionalism in the office and job site. Americans are very organized, punctual and by the book,” said Khouja. "At the company I was working for, there’s a conference room which they meet once a week to discuss the status of their undergoing projects and also to hold workshops that serve to introduce their employees to new engineering knowledge."

To sum up, an internship is an essential phase in a student’s study that should be taken seriously in order to properly reap its benefits. This experience will highlight one’s positive qualities, pinpoint points of weakness to be improved, provide important contacts as well as crucial knowledge. In essence, the ideal internship should build one’s character and solidify one’s view of the future.
WHAT COMES AFTER GRADUATION?

Graduation… “CHECK”! What’s Next?!
Written by Lamis Houssami

GRADUATION! “HIP HIP HURRAY” soon to come and we are all excited to wear the cap and gown, and take memorable photos with our colleagues and celebrate our outstanding achievement. Yet, what’s next? Do we really know what our plans are after graduating? Where will we go right after strolling across the graduation stage? As the graduation season gets closer, several students realize that they are afraid to graduate and take their next life decision. They don’t really know who they are and where they will end up being. So they start asking themselves what is our next career step?

In order to answer these questions and help students decide what they want to do after graduating, a couple of students who graduated during the academic year 2012-2013 were asked about the career they followed after graduating and about their experience.

In turn, Taher Farshoukh answered the following: “I went to contracting company, in Saudi Arabia 7 months ago. The first 5-6 months were literally hellish. I’ve been working continuously for 4 days in a row nonstop, waking up at 5 am and finish my work at 3 am. Sometimes, I had to sleep in my car to save some time. I was subjected to listening to very offensive words. Therefore, my advice is to you is to have patience. Make sure that what you learned from AUB is almost nothing except for one thing which is learning how to manage your work and cope with what you might face under immense pressure. I suffered so much at my job, but thank god, I was rewarded and got promoted within a record time (6 months), to become the youngest engineer ever that was able to achieve that in company’s history.”

As for Emile Zankoul who is currently working as a Project Management Engineer in SETSintl, described his experience as “interesting”. He explained it is because “you get the chance to work on all kinds of big projects and to clearly understand all the project phases while interacting with other companies.” Moreover Zankoul said that the “difference between work and university is that in the former you participate in actual and existing projects instead of hypothetical ones which makes your output more valuable. Another difference is that in work, communication and teamwork play a much bigger role and are very essential to succeed. An additional difference would be the fact that you are tied to a schedule (8 hours a day, 5 days a week) on one hand, but have no homework on another. As for courses, you don’t use directly at work most of the things you learn in them, especially that the field of CEE is very wide and has several tracks. However, it is very important to have a strong background and base to succeed in whatever path you pick. Courses mainly teach you how to think and how to solve engineering problems. Moreover, when you start working you begin to understand what you should have focused on in your courses because you begin to understand which parts and how they are applied in the professional field. Consequently, my advice to you would be: Do not let CIVE 500 be your only internship, do as many as you can so that you can make the most out of your courses and so that once you are about to graduate, you know exactly what to expect and know what you really want to work in. You would also be well prepared and more valuable to the companies you are applying to.”

On the other hand, Zeina Wafa, who decided to join a graduate school expressed the following “I graduated last spring and sought graduate studies in Austin, Texas. Although going for Master’s directly after completing my undergrad studies left me unwilling to study, the experience in itself as well as the financial and academic support I’m receiving there makes it worthwhile. I definitely like it since I chose a specialty I like and would want to go more in depth at.”
FUN AND GAMES

Can you find the hidden words? They may be horizontal, vertical, diagonal, forwards, or backwards.

ABODE, ANNEX, APPARTMENT, ARCHITECTURE, ATTIC, BALCONY, BASEMENT, BLUEPRINT, BUILDING, BUNGALOW, CABIN, CASTLE, CEILING, CONDOMINIUM, CONSTRUCTION, COTTAGE, DECOR, DESIGN, DEVELOPMENT, DOORS, DUPLEX, DWELLING, EDIFICE, ELECTRICS, EXTENSION, FOUNDATION, FRAMEWORK, GARAGE, GAZEBO, HEATING, HOUSE, LIGHTING, LODGE, LOFT, MANSION, MEZZANINE, PALACE, PLANS, PLUMBING, RESIDENCE, ROOFING, ROOMS, WALLS, WING.

Each row must have the numbers 1-9 occurring just once. Each column must have the numbers 1-9 occurring just once. The numbers 1-9 must occur just once in each of the 9 sub-boxes of the grid.

STAFF

Chairperson
Dr. Mutaseem Fadel

CES Advisers
Dr. Majdi Abou Najm
Dr. Ghassan Chehab
Dr. George Saad

Editor In Chief
Ghida Ismail

Staff Writers
Frederic Abou Jaoude
Christelle Al Haddad
Anthony Daou
Lynn Farran
Ellen Francis
Lamis Houssami
Maher Said

Designer
Joanna Zeenny

References
http://www.puzzlechoice.com/pc/Sudoku_mp1x.html
http://www.puzzlechoice.com/cw/Quick01x.html
http://www.puzzlechoice.com/pc/ws_build_itx.html