



كلية الهندسة
College of Engineering
QATAR UNIVERSITY جامعة قطر

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**DEPARTMENT OF CHEMICAL
ENGINEERING**

CHE NEWSLETTER

Annual Chemical Engineering Students-Faculty Gathering



On Thursday October 29, 2015, Chemical Engineering students got together under one roof to meet Chemical Engineering faculty members and to get introduced to ChE program. This annual event is organized by the Department of Chemical Engineering in collaboration with the QU AIChE Student Chapter for the department's male and female students separately. The female gathering took place early morning on that day while the male event was held in the afternoon. The two events were attended by over 50 chemical engineering students from all levels. The HoD, Prof. Ramazan Kahraman opened the event with a short speech welcoming the students, faculty, TAs and staff members of the Department of Chemical Engineering followed by a brief presentation introducing the ChE program.



Following the HoD speech, the President of the AIChE Student Chapter, Sara Ali in the female event and the Vice President of the AIChE Student Chapter, Fahad Al Naimi in the male event gave brief presentations introducing the AIChE Student Chapter officers and the variety of activities held by the chapter and their plans. The AIChE president and the vice president invited and encouraged the ChE students to take part in the chapter activities and explained the procedure for participation.

Issue 5, February 2016

*ChemE Car
Competition in
USA Page 2 - 3*

*ChE Outreach
Activities Page 4*

*ChE Department
Activities and
News Page 5 - 9*

*Faculty Awards
& Achievements
Page 10 - 11*



Dr. Mert Atilhan has then joined the floor and gave a briefing about **ChemE Car Competition** as being one of the major activities of AIChE. At the end of the event the HoD, Prof. Ramazan Kahraman and Dr. Majeda Khraisheh, the instructor of the ChE Summer Training Course; handed ChE senior students certificates of completion in recognition of their superb performance in **Summer Training Internship 2015**. In reward to Dr. Majeda's great guidance and mentorship in summer training, ChE male students surprised her with a trophy and a certificate of appreciation. Details about ChE students experience in Summer Internship 2015 will be in a special issue.

ChE Students Competed in ChemE Car Competition in USA at AIChE Meeting



On November 5, 2015 a team of ChE female students supervised by Dr. Mert Atilhan (QU AIChE Student Chapter Advisor) and Dr. Fadwa Eljack (QU AIChE Student Chapter Co-Advisor and Female Chaperon) flew to the USA to participate in the **International AIChE ChemE Car Competition**. The competition took place at Salt Lake City Conventional Centre in the State of Utah. A total of 35 universities participated in this international competition.

Qatar University represented by the **ChE female team** was one of the **only 5 overseas teams** selected to participate in the competition. Under the supervision and guidance of the ChE supervisors Dr. Mert and Dr. Fadwa, the ChE team designed and constructed a chemically powered vehicle that travels for certain distance while it carries a cargo. **This is the second participation for Qatar University in this competition** and the ChE team has done a good job in the competition and gained valuable experience. The team ranking was between 15th-20th position amongst the other teams. **The team members are:** Daren Dardor, Ghosna Al Marri, Maitha Al Naimi, Mariam Chamakh, Sara Malik, Shiva Ghoulm and Wadha Alenqawi.



ChE Faculty Meeting Foundation Students as an Outreach Activity

The Department of Chemical Engineering through the Office of the Assistant Dean for Student Affairs organized **two meetings with the foundation students as part of the department's outreach activities**. Dr. Essa Al-Musleh met with foundation students visiting two classes on December 7 and 9, 2015. The idea of the visits was to introduce the importance of chemical engineering for the State of Qatar.

They were informed that oil and gas are very important for Qatar economy and chemical engineers are needed for their production and processing. Chemical engineers are involved in both the design and operation of oil and gas facilities. This was introduced to two foundation classes each with about 20 students.

Sponsorship opportunities for the engineering students were also stated.

Department of Chemical Engineering Supports High School Students as an Outreach Activity



As part of the Department of Chemical Engineering outreach activities, the department hosted groups of **students from Qatari high schools** in the Chemical Engineering labs. The aim of the visits was to introduce students to Chemical Engineering and to offer them expertise and support in their specific research of interest. The first visit was by the teachers and students of **Al Khansaa Primary Independent School for Girls** on November 22nd -24th, 2015. The ChE lab team guided the students in a lab tour and demonstrated experiments to produce *“Dye synthesized solar cells from natural materials”*; the research that the school students were interested in. The second visit was by the **students of Nasser bin Abdullah Al-Attayah Independent Secondary School for Boys** on December 29th, 2015. The lab team supported the school students in their research on *“The use of banana peels to purify water from heavy metals”*. The team guided the students to conduct some of the related experiments and lab analysis.

ChE Senior Students' Visits to Chemical Plants (December 3, 6, 10, 2015)



The Department of Chemical Engineering in collaboration with **Qatar local Industry** has organized three plant visits for the ChE senior students and their supervisors in December 2015. These visits come as part of **Plant Design capstone design course experience**. The plant visit gives the students a chance to be exposed to a professional chemical engineering environment where they interact with experienced process engineers and observe real production facilities and learn about their operation.

The ChE female team designing **GTL plant** and supervised by Dr. Essa Al-Musleh visited **ORYX GTL** plant in Rass Laffan Industrial City on December 3rd. On December 6th, two student teams both designing a **Methanol Plant** accompanied by their supervisors: Dr. Fadwa Eljack, Dr. Hazim Qiblawey and Eng. Ahmed AlNouss were hosted by **QAFAC** team and had the chance to visit their **Methanol facility in Mesaieed Industrial City**. The last trip was made by the male student team designing **Ammonia Plant** and their supervisor Dr. Mert Atilhan to **QAFCO Ammonia facility in Mesaieed Industrial City** on December 10th, 2015.





Paper Tower Game (December 7, 2015)



The **QU AIChE Student Chapter** and the Department of Chemical Engineering have organized the **Paper Tower Game** for the ChE female students on December 7th, 2015. This game is one of a series of fun and social student activities planned by the AICHE Student Chapter for 2015-2016 academic year. Three student teams were formed of 6 students in each. The three teams were allowed 20 minutes to use their creativity and skills to build up a paper tower. The three towers were then judged for their heights and the creativity of the design and tested for their ability to withstand certain weight and points were allocated accordingly by the game jury consisting of Eng. Hesan El Faki (TA), Sara Ali and Razan Elshafee (AICHE Student Chapter representatives). The team formed by **Manar Ali, Mona Gulied, Sajeda Alsaydeh, Zeineb Ben Fadhla, Fatima Abu Rub, Fatema Al-Hattali and Maha Al-Kawari** won the **game** as their tower had the highest overall score. The fun time ended by distributing gifts to the winning team members.

Department of Chemical Engineering Organizes ChemE Car Competition



Department of Chemical Engineering is organizing the 1st **ChemE Car Competition** in collaboration with the **QU AICHE Student Chapter**. The event will take place at the Research Complex Auditorium/Foyer on **April 23rd, 2016**. In this competition, students design, build and compete in a model car competition. A ChemE Car runs by chemical energy source, stops by chemical reaction and it is capable of carrying a certain load of water over a specified distance within limited time. There will be **5 Qatar University teams** formed by **chemical engineering** students and joined by **industrial, mechanical and electrical engineering** students. The Departments of Electrical Engineering and Mechanical and Industrial Engineering are providing technical support for the event. There will also be **6 high school teams** competing in this competition. A **workshop and a hands-on training for the high-school team supervisors** took place at Qatar University in December 2015 and January 2016. Following schools are the participants this year: **Ibn Taymiyyah Independent Secondary School, Doha Independent Secondary School, Nasser Bin Abdullah Al-Attiyah Independent Secondary School, Omar Bin al-Khattab Independent Secondary School, Tariq ibn Ziyad Independent Secondary School, and Jassim bin Hamad Independent Secondary School.**

Weekly ChE Coffee Break



Aiming to strengthen the department culture, the **Department of Chemical Engineering** started a **new tradition of a short weekly coffee break** on December 27th, 2015. The ChE faculty, staff and TA's gather each Sunday morning in the Head

of Department's office to relax, chat and catch up on new updates while enjoying a cup of coffee and home-made snacks. This warm gathering leaves a positive impact on all the attendees and help to boost the spirit at the start of the workweek.



The Chemical Engineering family gathered for the celebration of **Dr. Anand's newborn baby boy on December 30th, 2015**. Honoring the pleasant occasion, Dr. Anand offered a **celebration lunch** that was attended by the chemical engineering family (faculty, staff and TA's). The Chemical Engineering family wishes Dr. Anand and his family happiness and prosperity. **Congratulations!**

Celebration of Dr. Anand's Newborn Baby Boy

ChE End of Term Gathering



The Department of Chemical Engineering celebrated the end of the academic semester **Fall 2015** on January 17th, 2016. ChE faculty and staff gathered for a light early lunch in the HoD office where they brought traditional home-made dishes and sweets to share while having friendly chats in an atmosphere full of intimacy. The warm meeting was a great way to lighten-up after the examination period and to cheerfully close the chapter of a busy semester.



Most Influential and Most Cited Article by *Dr. Mert* and Co-authors



The article that **Dr. Atilhan** and his co-authors published in **Industrial and Engineering Chemistry Research (I&ECR)**, **American Chemical Society (ACS)** has been selected amongst *the most influential and most cited articles in all times* and honored for inclusion in first ever special issue themed "*Most-Cited Papers: All-Time Greats and Contemporary Favorites*" by **ACS**. This article was **top 3rd most cited article** in I&ECR in the last 5 years. Below is the link to the special issue.

<http://pubs.acs.org/page/iecred/history>



Qatar University-Qatar Shell Research and Technology Center Faculty Industry Experience Fellowship Award



Dr. Ujjal Ghosh has been awarded the *Qatar University-Qatar Shell Research and Technology Center (QU-QSRTC) Faculty Industry Experience Fellowship* by **Qatar Shell**. During the three months of this fellowship program starting in December 2015, Dr. Ujjal will look into the mitigation of dust contamination and reduction of chemicals used in cooling water (CW) system. The rationale behind QU-QSRTC Faculty Industry Experience Fellowship program is to facilitate exchanges between academia and industry to inspire excellence through knowledge transfer and training, thereby building capacity in areas of strategic importance for Qatar.

The purpose built program will enrich faculty professional profile by gaining practical experience through working in an industry setting. The program is to promote, develop and assist the carrying out of oriented basic and applied research in strategic areas of scientific endeavor that concern the future **development and competitiveness of industry and enterprise in Qatar**. A key objective of this program is to build **strategic partnerships** with industry to perform cutting-edge scientific research, encourage industry-informed research, and foster **academic-industry interactions** to build a competitive advantage for Qatar.



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