

DEPARTMENT OF CHEMICAL ENGINEERING  
QATAR UNIVERSITY

# CHE NEWSLETTER

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Issue 4, September 2015

أبحاثي - My Gateway  
to Research



AL Majlis ChE  
Alumni Gathering  
Page 2 - 3

Industrial Advisory  
Board Meeting  
Page 4 - 5

12<sup>th</sup> Annual Plant  
Design Contest  
Page 5 - 6

ChE Department  
Activities and  
News Page 6 - 10

Faculty Highlights  
Page 11 - 12



The Department of Chemical Engineering organized “أبحاثي - My Gateway to Research” on May 24<sup>th</sup>, 2015. This event targeted to bring all undergraduate and graduate students of the department and showcase their ongoing research activities and provided them a platform to interact with their colleagues and faculty of the Department of Chemical Engineering. In the event **graduation project students, UREP project groups, MS and PhD students presented total 37 posters and there were oral presentation sessions delivered by the post-doctorate research associates** representing a collage of research activities from all four research clusters of the department and they shared their research findings. Posters were evaluated by the judges and **the best poster winning teams are:**

**Female Session Winners:** Wafa Hassan, Aisha Baobad, Nourhan Genidi, Thuraya Alsenani (Supervised by: Anand Kumar) by their work titled “*Nanomaterials Synthesis for Fuel Cell Applications*”



**Male Session Winner:** Ahmed Al-Nouss (Supervised by: Fadwa Eljack) by his work titled *"Importance of Process and Flaring Data and its Analysis for the Management of Abnormal Situations"*

ChE  
Female  
Alumni

## 2015 AlMajlis Chemical Engineering Alumni Gathering

The Department of Chemical Engineering hosted its regular "Al Majlis" gathering this March 30th, 2015. The event is a gathering for our Qatar University Chemical Engineering Alumni. The purpose of this gathering is to reach out to chemical engineering graduates, to share with them the current status of the department and to seek their valuable feedback into how to continuously improve the ChE program. Moreover, the Majlis gathering is intended to foster a spirit of loyalty between the Alumni, the current students, department, and Qatar University.



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This is the first “**AlMajlis Gathering**” held for Female Chemical Engineering Alumni. More than 60 female alumni and current graduates attended the event, along with the **Dean of Engineering, Dr. Rashid Al-Ammari**, and the **Department of Chemical Engineering faculty Head of Department, Prof. Ramazan Kahraman**, made welcoming remarks and **Ms. Nesrine Al-Kadi, President of the Qatar Shell Women’s Association Network**, presented a keynote on her experience. She emphasized the importance of guidance and mentorship for women to “*ensure their success in a competitive industry*”

*This year’s Majlis discussed means to engage more of our Alumni into our program and provided a platform for Alumni to share their diverse work experiences through a panel discussion. The objective of the panel is for alumni to share with the audience their different experiences, including those working in industry, those who pursued graduate studies, working in governmental agencies, and those working in non-engineering positions.*

**The alumni panelist were:** Maryam Al Mesaifri, Senior Chemical Engineer in the Ministry of Environment (MoE); Aysha Al-Mohannadi, Project Engineer in Ras Gas Company; Rabaa Al-Musleh, Senior Development Executive in Qatari Diar; Shaden Daghash, Teaching Assistant in Qatar University; Hanan Larm, Production Planar in Qatar Chemical Company (QChem); Layal Bani Nasser, Executive Assistant in Qatar University; and Aida Rafat Abouelela, Research Engineer in ConocoPhillips, Global Water Sustainability Center. **The panelist** highlighted some of the **challenges they faced** as they were venturing into their careers. All of the speakers paid tribute to **the quality of education** they received at **Qatar University** with special emphases on the Capstone Design experience. The panelist shared some insights on **opportunities** that upcoming graduates should capitalize on.



The Department thanked its speakers, panelists, alumni and the event sponsor, Shell. Prof. Ramazan Kahraman stated *"We would like to extend our thanks and gratitude for the support you have offered us in our Al-Majlis Alumni Gathering 2015. Your sponsorship and organization of the event have contributed greatly to its success. Our alumni and College of Engineering enjoyed the event tremendously."*

The event was well covered in the Media by various news agencies and 6 local newspapers in both Arabic and English.

## Industrial Advisory Board (IAB) Meets the Department of Chemical Engineering

The Department of Chemical Engineering met with its IAB members on Tuesday March 17th, 2015 at Qatar University. The board members included Mr. Dean King, Engineering Manager at Qatar Gas, Eng. Saqer Al-Shahwani, Head of Operations Research at QP, Mr. Shane Watson, Head of Facilities Development Studies at Maersk Oil, and Mr. Youssef Al-Jaber, Head of CSR and Institutional Relations at Total.

The Head of Department, Prof. Ramazan Kahraman and the chairs of the ChE Committees represented the Department in the meeting.

**The IAB was briefed on:** the chemical engineering program's curriculum, the preparations for the upcoming accreditation visit and the Department's vision, mission, and educational objectives. In addition, the IAB members were thanked for their continued support to the Department as members of the board.



## Industrial Advisory Board (IAB) Meets the Department of Chemical Engineering

The main topics discussed and lead by IAB members were: review of the program educational objectives, IAB's input on the ChE Curriculum and ChE Technical electives, skills that are key to new graduates entering the workforce, and leveraging research expertise in the Department of Chemical Engineering.

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## 12<sup>th</sup> Annual ChE Plant Design Contest



The 12<sup>th</sup> Annual Chemical Engineering Plant Design Award Contest took place on Thursday 4<sup>th</sup> June, 2015 in the Marriott Marquis City Center, Doha. **Our graduating students showcased their design and presentation skills** in front of an audience of people from industry, parents and members of Qatar University. Plant design is an important component of the chemical engineering curriculum and we made it our [flagship of excellence](#) in teaching/learning with input from our industry partners who have been supporting this design competition for the past 12 years. **The industrial judging panel included** Mr. Abdulla Al-Hajri from Qatar Gas, Mr. Salah Abdulla from QChem, Mr. Millind Sumant from QAFAC and Mr. Lars Wahlqvist from QVC.

The 2015 winners were the “TopTech” group that is made up of Shahd Gharbia, Jamila Falady, Mahsa Tarsad and Mashaal Alfakih. The groups which took the **second and third places** are the “SAFFAR” team (composed of Fatima Al-Massih, Mehak Jilani, Noor Alemadadhi and Roghayeh Dejan) and the “QETHER” team (composed of Aeman AlJumily, Shrooq Alyazedi, Fatima AlmKhyari and Diana Abuarja).



## Department of Chemical Engineering Participates in the Engineering Week (3-6 May 2015)



During this year’s Engineering Week which was held at Qatar University on 3 – 6 May 2015, **the Department of Chemical Engineering participated in booth activities and on stage activities.** The on stage activity involved running a competition between two student teams from two different schools. They were competing in making the *best perfume* with right concentrations. Students were provided by directions and right tools to run this experiment.



The booth activities included four different experiments at which high schools students participated in with help from our faculty and staff. **The experiments were: *Non-Newtonian fluid, Perfume Preparation, Gas Diffusion and Biodiesel Experiment.*** The event was fun and exciting and we were able to reflect on different applications related to chemical engineering which got the attention of the students and made them ask many questions.

## Qatari Chemical Engineering Students and Faculty visit Omar Bin AlKhatib High School

*“Encouraging students to pursue careers in engineering”*

The Department of Chemical Engineering **Qatari students** visited [Omar Bin AlKhatib High School](#) on the 10<sup>th</sup> of March 2015. The visit had a number of objectives that included meeting high school students and informing them about the importance of engineers and how engineers contribute to the Qatari Economy.







The visit also gave insight into what is a chemical engineer and what is their role in industry. The team from the Department of Chemical Engineering was made up of **senior and junior Qatari male students and they are:** Abdullah Al Karbi, Ahmed Al-Ahmed , Faisal Al Noora, and Fahed Al Naimi. Chemical Engineering faculty, **Dr. Essa Al-Musleh and Dr. Mohammed Ali Saleh**, accompanied the students.

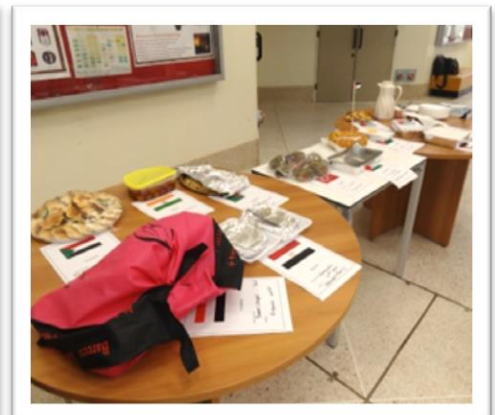
The QU team met with the school's academic counselor Mr. Ahmed Al Balam.

The four QU chemical engineering students gave a half-hour presentation and later let a discussion with the high school students on their aspirations as engineers. Around 35 students from the 12<sup>th</sup> grade attended the presentation in addition to some of the school's teachers. The event made a good impression among the students. **Dr. Mohamed Ali Saleh** found the visits to be successful in achieving its goals and later he added *"There is a need to have more school visits to clarify the picture of chemical engineering specialization among high school students"*.



The **Department of Chemical Engineering** and the **AICHE Student Chapter** organized and hosted the fourth annual **"ChE Traditional Cuisine"** on March 23, 2015. This event proved to be a great chance for faculty, staff and students to have a friendly meeting all together to share traditions and delicious food. This year was the **fourth time** this successful event took place. This event was initiated with the main goal of getting student and faculty to interact. It is a great **chance to meet some of our newest** students who just joined us and to **share a culture via food and customs**. The number of countries and cultures that represent who we are as a department is amazing. We encourage everyone to bring a dish from their country and some choose to dress up as well.

## ChE Traditional Cuisine





## Class of 2015 Farewell Party

### Male Student Party

On the 31<sup>st</sup> of May 2015, the **ChE seniors of 2015** have made a unique party as a sincere farewell to the Department of Chemical of Engineering for their effort with them. They have invited all of the professors, TAs, and staff who have been with them from the first day they started their major academic life.

The students have prepared a wonderful cake with their group graduation picture printed on it. **Khaled Altholoth**, a member of the batch, has made a short and funny video called “**Transformation Sunday**” that compared how they looked as infants and now in the besht as graduates.



Afterwards, **each student gave a short yet nice speech** expressing his gratitude and appreciation to every staff member who attended this event and telling them how lucky they were to be involved with and taught by such magnificent people. On the other hand, **ChE staff were extremely kind and happy** for their achievement as well as giving them advices for their future. Such wonderful memories are what remain at the end of every phase in the human’s life. **Class of 2015, you won’t be forgotten and surely you will be missed.** All the best in your future.

## Chemical Engineering Retreat

Chemical Engineering faculty and staff had a **retreat** on June 15, 2015 to assess the department’s current activities, discuss CENG’s Strategic Plans (KPA’s and KPI’s) and plan for the next year.





## Chemical Engineering Retreat

The retreat took place at Intercontinental Hotel, Doha. The retreat started at 8:30 in the morning and ended at 2:30 in the afternoon.



## Class of 2015 Farewell Party *Female Student Party*

On Thursday, 11<sup>th</sup> of June 2015 the **Department of Chemical Engineering female seniors** have organized a remarkably enjoyable party to farewell the ChE department. They invited all faculty members and staff to share with their last times as students and to create an everlasting memory of the event. The farewell event started by the ChE faculty opening the door for the students to give suggestions for the department. Then, **Shrooq Al Yazedi**, a senior student, have shared with the audience **a beautiful poem** she has specially written for the event.



The poem was to congratulate her colleagues for making it through the long journey, to wish them a bright future and to express her gratitude to the faculty for their efforts. A **special movie** made by one of the chemical engineering graduating students, **Aeman Ahmad Aljumaily**, was then displayed. The movie presented the four years journey of the whole batch highlighting their unforgettable times and experiences. The party continued with **sincere words** from the students expressing their feelings toward the faculty and their colleagues. The fun time continued with a **game** played between the faculty and the students towards the end of the party. The event ended by **shooting some memorial photos** and a **lunch prepared by the students**. It was such an event that will never be forgotten.

## MBR Short Course

The internationally-recognized [MBR Short course](#), developed and delivered by **Professor Simon Judd** of the Chemical Engineering Department of Qatar University, was presented at the Crowne Plaza Business Hotel in Doha on 16-17 March, 2015. Delegates attending the course were from **Qatar Petroleum**, who are considering MBR technology for [industrial effluent recovery and reuse](#) applications, and **CH2MHill**, the international civil and environmental engineering consultancy who are involved with many of the Qatar infrastructure projects, including [sewage treatment](#). **The course provided the background, fundamental process principles and details of commercial membrane products for MBRs.** Many examples of both municipal and industrial effluent treatment using the technology were provided, and both its efficacy and cost effectiveness for large-scale municipal was demonstrated using real-life data. The course was **well received** by the delegates, with an overall course **satisfaction score of 92%**.



## Qatar University Scientists 2015 Scopus Awards Winner



**Dr. Mert Atilhan** was awarded for the [Qatar University Scientists 2015 Scopus Awards Winner](#) on 21<sup>st</sup> of April, 2015. **Scopus awards recognize him as *one of Qatar University's most distinguished researchers for his outstanding achievements in Natural Sciences.*** Elsevier provided quantitative analysis using data from Scopus, the world's largest abstract and citation database of peer-reviewed literature, while subject experts from Qatar University assisted in looking at qualitative aspects of the research work of him.

Awards were presented in five disciplines. **He has been awarded in Natural Sciences.** The award was presented at the Qatar University Scientists 2015 Scopus Awards Ceremony, on 21<sup>st</sup> of April, in High Administration Building, at Qatar University. The ceremony was organized in collaboration with Qatar University Office of Academic Research.

## Dr. Ujjal Ghosh at Workshop on Waste Water Treatment as a Key Speaker

Dr. Ujjal Ghosh was a **Key Speaker by UniChem Ltd** to talk on *'uses of ferric chloride in waste water treatment'* in the workshop on **Waste Water Treatment & the Official Launch of Ferric Chloride Plant** held on Monday 4<sup>th</sup> May 2015 at Intercontinental Hotel, Doha.

**UniChem** is a company established to create a new way and taste in the field of chemicals, instrumentation supply & services in Qatar & the Middle East.



Mr. Sheikh Jassim Al Thani, Chairman of UniChem Limited, Ms. Nivine Abouel Soud, Chief Executive Officer of UniChem Limited, Dr. Hassan K Abdulrahim Scientist from Qatar Foundation and Mr. Bill Sun, Business Head, Kingtank, China were other speakers in the event. The **main aim of the event** was to gather professionals from ministries, regional municipalities, industries and education on a platform to discuss **effective waste water treatment options** and also announce UniChem Limited's futuristic plan to setup a Ferric Chloride plant. There were more than 100 participants in the event.

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