

# CHE NEWSLETTER

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**QATAR UNIVERSITY - DEPARTMENT OF CHEMICAL ENGINEERING**

## ISSUE 9

NEWSLETTER



## ENGINEERING

## CHE NEWSLETTER

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## ChE Research Collaboration with ConocoPhillips

A ChE faculty team is collaborating with ConocoPhillips through its Global Water Sustainability Center (GWSC) in Doha on a research project. The project focuses innovative treatment of produced water. This collaboration comes as a fruit of the objectives set by the department of Chemical Engineering to enhance the collaboration of ChE distinguished academic and lead industrial institutions in Qatar.



The joint project is managed by ChE HoD Prof. Majeda Khraisheh and GWSC Managing Director Dr. Samer Adham and will result in two Masters' theses in Environmental Engineering at Qatar University. The ChE research team includes two graduate assistants: Eng. Asmaa Othman and Eng. Hania Al Batrni. Eng. Asmaa Othman who is keen and motivated to work on this project said:

“First of all, I would like to say that I am really delighted that I have got the chance to experience working in a project with an industrial flavor. Being sponsored by ConocoPhillips for my MSc thesis is really a good opportunity for me to enhance my career objectives. Currently, I have been working on the assigned project “ Design of MEG Recovery system to remove produced water to permit reuse” for around 4 months where the main focus is to obtain a design based on simulation work on Aspen plus. In my first visit to ConocoPhillips, I presented and highlighted what I have learnt about the project through my literature review process and discussed with ConocoPhillips the upcoming goals for the project to enhance its deliverables. Finally, I hope that we can deliver some excellent outputs to meet ConocoPhillips' expectations and at the same time deliver my master thesis in a recognizable way.”

## Research Collaboration





## Industrial Advisory Board Meeting



The Department of Chemical Engineering met with its Industrial Advisory Board (IAB) members on Thursday May 10th, 2018 at Qatar University. The board members included professional engineers, managers and experts from Qatari local oil and gas industry sector. The Head of Department, Prof. Majeda Khraisheh chaired the meeting that was attended by all ChE faculty members. The meeting started with a presentation that gave an overview to the board members on the Chemical Engineering program currently offered in the department.

The meeting discussion focused on the agenda items that included: 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. A discussion session was devoted for student's summer training program and the challenges associated to it. In addition, the meeting discussed the need and importance of offering MSc program in Chemical Engineering at Qatar University.



## ChE Annual Faculty – Student Gathering (Pizza Day)



On Wednesday and Thursday October 18 and 19, 2017 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 two events were attended by a wide range of chemical engineering students from all program levels. The HoD, Prof. Majeda Khraisheh opened the event with a short speech welcoming the students, faculty, TAs and staff members of the Department of Chemical Engineering and to the new academic year. The welcome note was followed by a brief presentation introducing ChE program. Following the HoD speech, the Vice President of the AIChE Student Chapter, Samara Waheed in female event and the President of the AIChE Student Chapter, Khalid Al Naimi in male event gave a presentation introducing AIChE Student Chapter officers and the variety of activities held by the chapter. AIChE president and vice president invited and encouraged ChE students to take part in the chapter activities and explained the procedure for participation. Dr. Fadwa ElJack has then joined the floor and gave a briefing about ChemE Car Competition as being one of the major activities of AIChE.

ChE family, faculty and students, enjoyed the friendly atmosphere of the gathering and yummy pieces of pizza.







# QU ChemE Car Competition

**AIChE**  
Chem-E-Car Competition



The Department of Chemical Engineering organized the third ChemE Car Competition 2018 in the State of Qatar on Thursday, March 15, 2018, in collaboration with its AIChE (American Institute of Chemical Engineers) Student Chapter and sponsored by OryxGTL Qatar.

The competition aims to encourage creativity and innovation among ChE students and also to reach out high school students to motivate them towards studies in chemical engineering. A total of 18 independent high schools in Qatar participated in this year's edition.

The competition required participants to design and race a small car that is operated through chemical processes and carrying a load of water (0-500g) for a distance of between 15-30 meters. Teams were given information of the load amount and distance about two hours before the competition. This year the load was 125g and the target distance was 12.5 meters.

In the lead-up to the competition, the department of Chemical Engineering team offered several sessions for the participating schools to guide them on competition guidelines, rules, and safety regulations in addition to the main phases they need to go through to accomplish their car designs and calibration tasks.

Commenting on the competition, Head of ChE Department, Prof Majeda Khraisheh said: "The ChemE Car Competition provides high school students with the opportunity to gain chemical engineering knowledge and expertise from experts to make the best use of chemical engineering principles and to improve their skills and capacities in this field".



Associate Professor Dr. Fadwa El Jack said: “It is exciting to see that over 130 students participated this year from high schools in this event. It was nice to see the students deeply engaged in the competition and to see their teachers guiding and supporting their efforts. We like to extend our gratitude to the principals and administration of the eighteen participating independent schools and we look forward to seeing them back again next year”.

Oryx GTL Qatar Acting Public Relations Manager Thamer Al Kaabi said: “Our support for the 2nd ChemE Car Competition for the second year in a row is to confirm the commitment of Oryx GTL in supporting the importance of educational initiatives in the State of Qatar. This is in the context of the ongoing strategies and efforts to support the major educational institutions in the country in order to qualify and prepare a new generation of industry leaders, business and other disciplines, which will lead to achieve all the goals and also Qatar National Vision 2030”.

COMPETITION









The winners of the 3<sup>rd</sup> edition competition for high school category were: Mohammed bin Abdulaziz Al Mana Independent Secondary School, Hamad bin Abdullah bin Jassim Independent Secondary School, and Ali bin Jassim Secondary Independent School respectively. On the other hand 5 University teams has participated in the competition for University student's category and the winning team consisted of ChE students: Soha Shokry Ahmed Ali Mousa, Sama Ismaeil, Maha Al-Sheebi and Alanoud Yousef Khalfani.






## Guest Lectures by Industrial Experts







**Industry Expert Capstone Design  
Lecture Series**  
Department of Chemical Engineering




**Environmental Impact Studies & their  
Importance on Industrial Facilities**


by Eng. Ahmed Homssi  
Environmental Manager



Monday November 6<sup>th</sup>, 2017  
2:00 – 3:15 PM @ C04 – 244  
3:30 – 4:45 PM @ BCR – B209



Ahmed Homssi is a manager for the planning, driving and managing all environmental aspects of Q-Chem and Q-Chem's associated activities. He has worked for Qatar, as the Executive of Manager for Q-Chem. Ahmed Homssi obtained his Bachelor Degree of Engineering in 1997 from the Middle East Technical University. He has worked over 27 years as a leading expert in the Q-Chem and over 25 years of experience in the gas and petrochemical industries. He has worked in various QCCO, QCCO, and QCCO. He is currently a Member of the Board of Directors of Qatar Chemical Company. He is also a member of the Qatar Chemical Company's Safety Committee.

**Industry Expert Capstone Design  
Lecture Series**  
Department of Chemical Engineering



**Safety in Process Design – HazOp and P&IDs**

by Eng. Tawfiq Abu Hamad  
Head of Safety, Shutdowns & Projects



Monday November 13<sup>th</sup>, 2017  
12:30 – 2:00 PM  
Male @ BCR – H214 Female @ C07 – 169



Tawfiq Abuhamad is head of safety, shutdowns and projects for Damgas at the office, Qatar. Eng. Tawfiq obtained his Master's degree in Industrial Safety & Hygiene from University of CMC, with over 20 years of experience in the oil & gas industry. He was recently awarded the "Process Safety Excellence Award" by TARGUJ and ConocoPhillips during the 2017 Safety Symposium.

ChE Plant Design capstone course offers a number of lectures each year that are covered by Industrial Experts. In Fall 2017, two guest lectures were organized to offer ChE senior students to meet and benefit from expert engineers in aspects related to chemical process design and control.

On Monday November 6<sup>th</sup>, 2018 Eng. Ahmed Homssi, Environment Manager of Qatar Chemical Company QChem, gave a lecture on Environmental Impact Studies and their importance for industrial facilities. This lecture was followed by a lecture delivered on November 13<sup>th</sup>, 2017 by another industrial guest expert Eng. Tawfiq Abu Hamad, Head of Safety, Shutdowns and Projects in Qatar Gas. In the lecture he introduced the topic of Safety in Process Design with focus on HAZOP study and Process P&ID.



## Chemical Engineering Graduate Student Gathering

GRADUATE  
STUDIES



The Department of Chemical Engineering organized a meeting for the PhD students that are currently enrolled in the graduate program in the Department of Chemical engineering on October 22, 2017. The event was attended by ChE faculty members who welcomed and supported the PhD candidates applying for the program. The meeting was an opportunity to discuss with the graduate students important matters including: degree requirements and comprehensive exam. Moreover it was a good chance to know and guide our students who are looking for dissertation topics or start their own research in this academic year.







## My Gateway to Research 2018 أبحاثي



The Department of Chemical Engineering at Qatar University organized the 4<sup>th</sup> annual student research event called “أبحاثي – My Gateway to Research” which was held on Monday, May 14<sup>th</sup>, 2018 at Qatar University Research Complex. The research day is a showcase of ongoing research activities and targeted student body of the Department of Chemical Engineering including both undergraduate and graduate levels.



In the opening speech, the organizing committee indicated that this year event includes oral presentation, video competition, posters showcase as well as the drawing of the next year plant design groups. Due to the month of Ramadan coming earlier, this event was combined with “AIChE – End of Year Event”. The graduate and undergraduate student participating in this year event were competing on different prize categories (such as: best video, postdoc researcher, postgraduate researcher, undergraduate researcher, oral presentation and plant design poster competition).

In her opening remarks, Dr. Majeda Khraisheh, the Head of the Department of Chemical Engineering indicated that “The work presented today represent the strong commitment of our faculty and students to scholarship and it is an opportunity for the CHE faculty and undergraduate students to present and share posters of their current research, industrial collaboration, and new achievements. Dr.Khraisheh also highlighted that having such gatherings encourages our students to get involved in research and actively participate in creating a research culture among CHE students. Such events support the research progress at the department further and contribute to open new channels of collaborations with industry and academia, and help develop students’ skills in research under the supervision of department faculty members and industry experts.



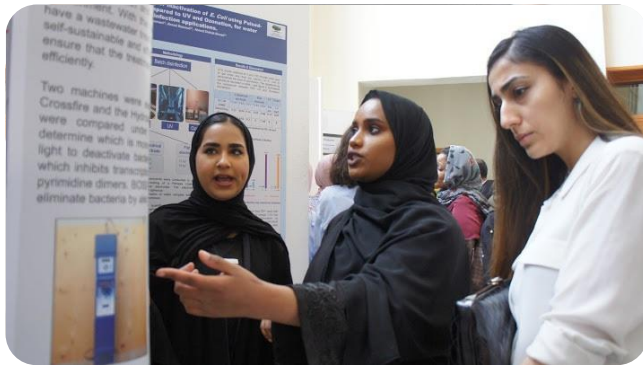
Oral presentations were delivered by the department PhD students and post-doctorate research fellows covering a wide range of exploration from basic science to chemical processes. Three videos prepared by the department undergraduate student were displayed during the video competition that was a showcase of the importance of chemical engineering in both normal life and industry. Close to 50 posters in various categories, such as undergraduate research projects, plant design and innovation in chemical engineering, graduate students (MS, PhD, RA) research posters, were presented. Experts from industries and Qatar University faculty members evaluated these posters and the winners were recognized at the conclusion of the event.

This year's gathering also included a farewell ceremony to recognize the contributions of two exiting faculty members, Dr. Mohammad Aman Ullah and Dr. Ujjal Kumar Ghosh. The event concluded with the announcement of awards for Abhathy competition winners, and recognition of QU-AIChE student chapter contributors.



**Student**  
*research*





CONGRATULATIONS!  
*Winners!*

## Undergraduate Category

### 1. Best Video

- Razan Sawaly

### 2. Undergraduate Poster Winner

#### a. First place: (two groups)

1. **Title:** Use of Algae for removing heavy metals

**Student:** Sara Kombargi

2. **Title:** Hydrogen Separation Membranes  
**Students:** Eka Yasrun, Mazin Ismail Ali, Ihab Ashraf Fath Elbab, Ahmed Mahgoub Mohamed

#### b. Second place:

**Title:** Shape Controlled Synthesis of Metal Nanocrystals

**Students:** Noor Shallouf, Sama Ismail, Soha Mousa, Somaya Selim, Rim Ismail

#### c. Third place: (two groups)

1. **Title:** An overview of syngas production

**Student:** Asmaa AlFalasi, Awatif AlRwaili

2. **Title:** Thermochemical Water-Splitting for H<sub>2</sub> Generation Using Sol-Gel Derived

**Students:** Zaenab Al-Emadi, Tooba

Qureshi

### 3. Plant Design Poster – Male Groups

#### a. First place:

**Title:** LNG Product Optimization and BOG Recovery

**Students:** Khalid Al-Nuaimi, Anas Ahmed, Mohammed Shamlooh, Mohammed AlHamad

#### b. Second place:

**Title:** GTL Process Optimization

**Students:** Khalid Alahzam, Abdullah Al-mulla, Al Alhusumi, Abduaziz Babiker

### 4. Plant Design Poster – Female Groups

#### a. First place:

**Title:** EIA of Ethylene Company

**Students:** Norhan Ismail, Noora Ibrahim Al-Hussaini, Ghadeer Taymour, Sara Al Raeesi, Aysha Alkaabi

#### b. Second place:

**Title:** LNG: SAVING THE PLANET IS NOT A CHOICE IT'S AN OBLIGATION

**Students:** Dana Alameddin, Raghda Fathelbab, Dana Al-Resheq, Hanan Ghadban

### Non-UG Category

#### 1. Best Oral Presentation

- Dr. Fahed Aziz Qureshi
- Ahmed Aheed Ali Mohammed

#### 2. Research Poster Awards

##### a. First place:

- Title:** Highly active bifunctional  $\text{LaMO}_3$  (M=Cr, Mn, Fe, Co, Ni) perovskites for oxygen reduction and oxygen evolution reaction in alkaline media

**Winner:** Ms. Anchu Ashok

- Title:** An overview of evacuated solar collectors and its future developments

**Winner:** Mr. Hamza Usmani

##### b. Second place:

**Title:** Effect of Stirring on Natural Gas Hydrate Formation

**Winner:** Dr. F. Quieshi, Dr. T Altmash

##### c. Third place:

**Title:** Hydrogen generation by photocatalytic water splitting using  $\text{TiO}_2$

**Winner:** Ms. Jesna Asraf

### Nomination based awards

#### 1. Postdoc category:

- Dr. Ahmed Awadhallah
- Dr. Gorakshnath Takalkar
- Dr. Md. Abdul Matin
- Dr. Kazi Monzure Khoda

#### 2. Best research assistant

- Fahed Qureshi (shared first place)
- Anchu Ashok (shared first place)
- Aliya Banu (shared second place)
- Jesna Ashraf (shared second place)

#### 3. Outstanding achievement award

Abedalkhader Abraheem  
Alkhouzaam

#### 4. Best undergraduate researcher award – male category

- Eka Yasrul
- Khalid Al Naimi
- Mohamed Shamlooh

#### 5. Best undergraduate researcher award – female category

- Asmaa Sultan AlFalasi
- Jana Jamaledin

#### 6. Best administrator & supporting staff award

Ms. Rakia Redissi



CONGRATULATIONS!  
*QADIRIYETS!*



## ChE Outreach: Visits to Primary School

Outreach!

The Department of Chemical Engineering outreached for primary school students. Visits to Maymouna Independent Primary School and Al Khour Independent Primary Schools were organized on January 2018. The visits were aimed to support primary school students in their scientific projects and to help enhancing their experimental lab experience. ChE support team was led by Dr. Ahmed ElKhatat.



Outreach!



## ChE Department Participation in Engineering Week 2018 Event



The Department of Chemical Engineering participated in the Engineering Week 2018 event. The booth activities included experiments on perfume making perfume and how to choose the right concentration. The department representative at the booth provided the visiting students directions and tools to run this experiment. In addition experiments on non-newtonian fluid, gas diffusion, biodiesel experiment and chemical car demonstrations were exhibited in the booth.

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 school students.

## ChE Community Service: ChE Labs Support Stars of Science



### LAB SUPPORT<sup>®</sup>

As part of community service, the Department of ChE has collaborated with Stars of Science to provide technical lab support. The Department of Chemical engineering at QU has been collaborating with Stars of Science for the past few years. This year, the program is in production of its 10<sup>th</sup> season that will have a new group of innovators.

ChE will be providing lab support to one of the innovators who is working on an organic paint varnish that is promised to act as a more durable, eco-friendly and cost efficient coating to the paintings.

The project requires the use of distillation devices that are available at ChE research labs. ChE teaching assistant and senior lab technician Dr. Ahmed ElKhatat is focal person for this collaboration at the Department of Chemical Engineering.

## ChE Department Activities in Darb Al Saaiee

The Department of chemical Engineering participated in the College of Engineering at Qatar University booth in Dara Al Saaiee celebrations of Qatar National day 2017.

The activities in the Chemical Engineering booth included: perfume manufacturing, slime preparing, ChemE car demonstration and Non Newtonian fluid testing experiments.





## Desalination Plant Visit



Aiming to enrich students experience in Deslination technical elective course in Chemical Engineering curriculum, the Department of Chemical Engineering organized a field trip to water desalination facility at Ras Abou Fantas on December 21<sup>st</sup>, 2017. The visit was attended by ChE senior students enrolled in the technical elective course and was supervised by the course instructor Dr. Hazim Qiblawey. The visit aimed to enhance student understanding of the multi-stage flash distillation technology used for sea water desalination and the main unit operations and energy requirments associated to the process. The visit included a lecturing session on the plant process, a bus tour in the plant and water analysis and quality lab.



## ChE Senior Students Visit QAFCO Ammonia Plant

The Department of Chemical Engineering in collaboration with Qatar Fertilizer Company (QAFCO) has organized a plant visit to the Ammnoia production facility in Mesaieed for ChE senior students and their supervisors on March 22<sup>nd</sup>, 2018. The visit comes as part of Plant Design capstone course experience. The plant visit gives the students a chance to be exposed to a proffecional chemical engineering environment where they interact with experienced process engineers and observe real production facilities and learn about the their operation. The visit was attended by ChE teams designing Ammonia plant and their supervisor supervised by Prof. Ibnelwaleed Hussien.



## 15<sup>th</sup> Annual Plant Design Contest



The 15<sup>th</sup> Annual Chemical Engineering Plant Design Award Contest took place on Wednesday 30<sup>th</sup> May, 2018 in the Conference Hall at the Admin Building, Qatar University. Eight groups from 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 and learning with input from our industry partners who have been supporting this design competition for the past 15 years. The Industrial judging Panel consisted of Ahmed Al-Mohannadi , Head of Qatargas offplot and offshore surveillance engineering, Qatar gas, Hesham Y El Zeini, Process Engineering Superintendent, Qatar Chemical Company (QChem), Abdulrahman Alahmed, Qatar Fertiliser Company (QAFCO) and Sultan Al-enazi, Chief Business Excellence Officer QAFAC.



**Qatar University**



and its Industrial Partners cordially invite you to attend  
the 15<sup>th</sup> Chemical Engineering Design Award Contest



Date: Wednesday May 30, 2018

Time: 9 AM – 2 PM

Venue: Conference Hall  
Admin Bldg-801  
Qatar University (venue)

Tel: +974 44034130

Email: che@qu.edu.qa





The first prize winners of 2018 were the “VCM” group that is made up of Mohammed ElShal, Mohamed Al Nojoomi and Hussam Mahmoud. The groups that won the second and third prizes were the “Ammonia” team (Reem Jalab, Samara Waheed, Shamima Al Tamreh and Sahar Yousif) and the “VCM” female team (composed of Dana Al Shuaibi, Jana Jamaledin, Mariam Essam and Dina Awis).

The winning teams were officially awarded in the College of Engineering Senior Design Contest Winners celebration that was organized by the College of Engineering in Jun 25<sup>th</sup>, 2018. The winners were presented with their prizes by the Dean of College of Engineering Dr. Khalifah Al Khalifah and in the presence of the HoD Dr. Majeda Khraisheh.



## ChE Department Retreat

DISCUSSION



Chemical Engineering faculty and staff had a retreat on June 24, 2018 to assess the department's current activities, discuss the department curriculum changes, self-study report and SWOT analysis. In addition the preliminary MSc proposal was also discussed in the meeting. The retreat took place at Al Dana Club. The retreat started at 8:30 in the morning and ended at 2:30 in the afternoon.



REVIEW



## ChE Football Tournament

One of the traditions of the Department of Chemical Engineering is to organize a sport activity once each semester. The sport activity is aimed to encourage ChE faculty and students to engage sport in their daily routine and to adapt balanced and healthy life style. In this context, QU AICHE Students Chapter collaborated with ChE Department in organizing two football tournaments for ChE male students last spring and fall semesters

AICHE reported the following on fall football event:

On 16<sup>th</sup> of November 2017 football League for chemical engineer took place in Qatar university pitches. The matches started at 3:00 pm until 6:00pm. The enthusiasm was running through the players' veins. There were 7 teams playing from different chemical engineering academic batches.

The final game was between senior and first year student teams and it ended up with the first year team winning the league title. Many Chemical Engineering faculty members appeared and participated in the event including: the HoD Prof. Majeda Khraisheh, Dr. Fadwa El-Jack. Dr. Mohd Ali H. Saleh took the game referee position and Eng. Ahmed AlNouss and Eng. Mohammed Abou-Nada participated as team players.





# FOOTBALL

The winning team consisted of: Abdulrahman Ebaid, Ahmed Merghani , Mohammad Noor, Mohammad Zeinal , Ezaldin Alobaidi and Qasim Abdelkarim

The spring ChE football league was on March 8<sup>th</sup>, 2018 where 6 student teams competed.

ChE faculty members: Dr. Saad Al Sobhi, Dr. Mohamed Ali Saad and Dr. Fadwa Eljack has participated in the event to support the students. Eng. Ahmed Al Nouss and Eng. Moahmmmed Abu Nadd has their team jerseys on.

The title winner was the 'Young Team' consisted of: Qasim Abdelkarim, Hamad Al Harami, Mohammed Zamzam, Ahmed Owis and Arafat Abdelhakim





## AIChE Annual Jeopardy Game



American Institute of Chemical Engineers



QU AIChE Student Chapter organized a Jeopardy Game for the Chemical Engineering students and faculty on December 7<sup>th</sup>, 2017. The social and yet educational event was a blast.

Jeopardy is a trivia game based on giving the answers and the competitors should guess the question for it. The event was organized by AIChE board members with the supervision of Dr. Fadwa El-Jack. Participants included Chemical Engineering Students and faculty members: Dr. Fadwa Eljack, Dr. Ramazan Kahraman, Dr. Shaheen Al Muhtaseb, Dr. Hazim Qiblawey and Eng. Hesan El Faki participated

The participants were divided into five groups, each had a professor or teaching assistant by their side. The game consisted of two rounds, each had five categories and five questions. The question pool included general questions related to topics such as Qatar, Sports and Movies and technical questions related to the chemical engineering.

Dr. Hazim Qiblawey's team took the lead and managed to win the entire game after they took the lead in the first round as well.

The Jeopardy event was beneficial for both undergraduates as well as professors. The friendly atmosphere allowed the interaction between them as they had the opportunity to work together away from the professional atmosphere. In addition, it was a great opportunity for freshmen and sophomores to get to meet ChE faculty members in a friendly atmosphere.



# ChE Graduate Student Participation in Major Research Events in Qatar



The seventh edition of ARC – organized by Qatar Foundation Research and Development (QF R&D) – was held over two days at Qatar National Convention Centre under the theme ‘R&D: Focusing On Priorities, Delivering Impact’, with thousands of local and international delegates participating in expert-led sessions on research, innovation, technology, and their role in building a sustainable, diversified, and globally-competitive economy. The event held on March 19-20, 2018.



On May 1-2, 2019 Qatar University held the QU Annual Research Forum and Exhibition. The Annual Research Forum and Exhibition is the meeting point for students, researchers and academics from the University's nine colleges, centers and institutes; including partners and stakeholders, to assess and review the institution's research enterprise. It is an occasion to demonstrate new tools, or report on the implementation of new programs, collaborations, innovations and other relevant projects that take bearing from the QU Research Roadmap 2014 - 2019, Qatar National Research Strategy and Qatar National Vision 2030.

ChE graduate students: Fahad Qureshi, Abdelkhader Alkouzam and Mrs. Shiva have participated in the poster sessions of the two events where they exhibited glimpse of their recent research.

One of the posters exhibited was on the use of ionic liquids as the gas hydrate inhibitors for offshore flow assurance. The poster highlighted the main research findings proves that the ionic liquids have the tendency to function as the thermodynamic and kinetic hydrate inhibitor both at the same time and the addition of synergistic compounds can significantly enhance the kinetic inhibition performance of ionic liquids. This research work was carried out by ChE PhD student Fahad Qureshi and was funded by the GSRA award from Qatar Foundation.



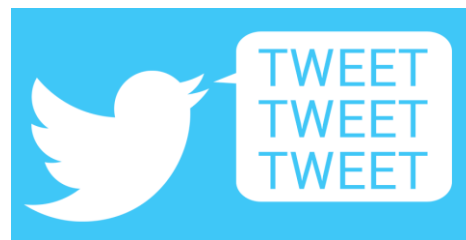


Dr. Magid Hamouda  
@magid\_hamouda

Through world-class facilities and competent dedicated faculty and staff, we're advancing research and at the forefront of scientific knowledge- this is why study at [#Qatar\\_University](#), Big THANK YOU Dr. Fares and CLU team and management.

Central Lab. Unit @CluQatar  
Spring 2018

College of Engineering - Graduate Programs



Dean of College of Engineering Dr. Abdulmagid Hamouda tweeted a complement on the efforts of ChE associate professor Dr. Fares AIMomani and the CLU team to develop and maintain the advancements in the college laboratories and for the support they provide to college students in their studies and research.



## ChE HoD Attends Gasna Competition Opening Event



Chemical Engineering Head of Department Prof. Majeda Khraisheh attended the launching of the 7<sup>th</sup> edition of GASNA competition that was organized by Gas Processing Center on October 17, 2017. The competition is a prestigious outreach activity initiated by Qatar University to bring awareness of the value and importance of Natural Gas as being the main energy source in Qatar to school students.





## Faculty Highlight: Award for Dr. Fares Al Momani

Dr. Fares Al Momani, Associate Professor of Chemical Engineering won the best presentation award from the 2017 international conference on Energy and Environmental science (ICEES2017) that was held at Thammasat University, Thailand on January 2017. The winning presentation topic was on "Advanced Wastewater Treatment Using Microalgae: Effect of Temperature on Removal of Nutrients and Organic Carbon".

Congratulations to Dr. Fares on his remarkable work and achievements!



## Faculty Highlight: Patent by Prof. Shaheen Al Muhtaseb



Professor Shaheen Al Muhtaseb, teaching professor of Chemical Engineering at Qatar Universities has recently carried out an innovative research with his research team. The invention of 'Sol-gel templates formed with infusion of gas bubbles' was patented.

The innovative research is worked on creating a novel electrochemical polymerization method for the preparation of crosslinked gels. This method helps to obtain a cleaner gel material, with less energy requirements. The produced gels with the electrochemical crosslinking method were thermally and mechanically more stable than conventional gels. Furthermore, the properties of the gel can be controlled through controlling the voltage.

Congratulations to Dr. Shaheen on his well done work. It is a great inspiration to all of us in the Department of Chemical Engineering.





## Faculty Highlight: Prof. Majeda Khraisheh Participation in Cono –Tarsheed Event



Head of Chemical Engineering Department Prof. Majeda Khraisheh participated in the event hosted by Qatar University (QU) Debate Club. The event gathered experts and students at the QU Research Complex recently for a panel discussion and debate about water sustainability in Qatar. The event is part of the ConoTarsheed initiative, a joint effort of ConocoPhillips and Kahramaa. The ConoTarsheed initiative aims to raise awareness among the various community sectors in the State of Qatar regarding the importance of water sustainability in building a future aligned with Qatar National Vision 2030.

The panel discussed successful initiatives in numerous sectors that have contributed to water sustainability. It also focused on personal responsibility, highlighting the integral role ConoTarsheed plays in raising awareness and sharing accessible information with the local community.

During the panel discussion, Professor Khraisheh highlighted the role of academic research in providing innovative solutions which can be adopted by various sectors.



## ChE First PhD Program Graduate: Dr. Fahad Qureshi

The department of Chemical Engineering proudly congratulates the graduate student Fahad Qureshi for his PhD defense with minor changes on May 8<sup>th</sup>, 2018. Fahad is the first graduate student to complete his PhD degree in QU Chemical Engineering Department. His PhD thesis topic was on the use of ionic liquids as the gas hydrate inhibitors for offshore flow assurance and was supervised by ChE HoD Prof. Majeda Khraisheh. Fahad has done a great job in defending his work in front of the examination committee and the attending audience and was highly complimented on thesis writing, content and style.

Congratulations Fahad Qureshi. The department of Chemical Engineering wishes the best of luck in his future.



STUDENT  
ACHIEVEMENT

## ChE Graduate Eng. Abdulkhader Al Khouzaam Won the ORYX GTL Student Award



Eng. Abdulqader Al khouzaam and Eng. Shifa Shaikh who are holders of Master's degree in Environmental Engineering Program from Qatar University were both among the esteemed 4 winners of the ORYX GTL 2018 awards for the advancement of post-graduate education in Qatar. The award recognizes outstanding individuals as future thought leaders who will contribute to building Qatar's knowledge and economy and were all educated in Qatari institutions of higher learning. The selection of the winners was based on the evaluation of their research experience and published work in the area of Energy Industry in Qatar and the Gulf region.

Congratulations to Eng (s). Abdulqader and Shifa on the great achievement. The department of chemical engineering wish them brightest future.



## ChE Student Won Award at the QU 2018 'Takreem' Event

ChE student Amro Behis wins the QU 2018 Student Leadership Award for the third year running. Amro was presented with the award and honored at the QU 2018 Takreem event. The leadership award comes as one of the prestigious non-academic student life awards that are presented yearly in a ceremony attended by the President of Qatar University Dr. Hassan Al-Derham. The ceremony aims at recognizing and rewarding students actively participating and engaging in student life and activities and representing the university in local and international forums.

Congratulations to Amro Behis. The ChE family is very proud of you.





## ChE Celebration of Students on Dean's List



The Dean's List is an academic award recognizing the remarkable achievements of undergraduate students. Deans of the respective colleges issue the award upon completion of each fall and spring semester, and the award is reflected on the student's transcript for the semester of the award. The college of Engineering has organized a gathering to honor students who made it to the Dean's List of Fall 2017 and Spring 2018.

ChE students, Gharam Awash and Sultan Al Haj, have delivered a speech in the event on behalf of the awarded students. The speech was dedicated to thank the College of engineering at QU with all it is faculty members on the valuable learning experience they are offering to QU students.

The Department of Chemical Engineering congratulates all ChE Students who made it to the Dean's list and wishes them continuous success.



## Congratulations to ChE students who made it to the Dean's List of 2017 – 2018 Academic Year ☺ Your hard work has Paid off

ChE Students on Dean's List of Fall 2017

Nagat Mohamed Elrefaei	Eka Yasrul
Nada Mustafa Mahmoud	Anas Shaban Ahmed
Amara Rehman	Abdul Rehman Habib Ur Rehman
Arwa Javed	Abdulkarim Abdulmalek Mira
Navaira Fathima	Afdhal Yuda
Dana Izzat Alresheq	Hussein Ali Al-Ta'mreh
Noor Wahib Khalil Shallouf	Abdullah Ahmed Omar
Haya Talib Shubbar	Ibrahim Mohamed Elmakaty
Reem Sameer Azzam	Husameldin Mahmoud
Aisha Abdul Quddus	Mustafa Adam Mohamed
Tasneem Mohamed Elmustafa Sid Ahmed	Mohammed Abdullah Al-Saadi
Samara Waheed	Mohammad Alabd Alhamad
Mariam Essam Sobaih	Mohamed Saeed Shamlooh
Somaya Ahmed Ahmed	Karim Ashraf Mohamed
Rem Abraham Jalab	Sara Jabr Al-Muhannadi
Dina Mohamed Ewis	Ftoon Abdulaziz A Y Al-Jaber
Hafsa Mohammed Ashraf	Noora Ibrahim Al-hussaini
Salma Ehab Elhenawy	Noora Mohammed F A Alqesaimi
Somaya Selim	Mona Saud A M Al-Kharfi
Shaima' Ali Al-Ta'mreh	Fatema Naser A H Al-Janahi
Sahar Emad Alhaj yousef	Dana Abdulrahman Alshuaibi
Fizza Muhammad Usmani	Janaa Rashid Al-Naimi
Mariam Nashaat Soliman	Noora Ismail H A Akbar
Jana Mohuiddin Jamaledin	Hissa Ali H A Alyafei
Waad Mahmoud Ismail	Hamad Abdulla M S Al-Harami
Fadwa Mohamed Kassem	Khalid Ibrahim AlNaimi
Noora Mohammed Razavi	Tamadhur Omar Alhelabi



*Congratulations*





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DEPARTMENT OF  
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