



## College of Engineering Community

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## **The Vice Dean for Graduate Studies and Scientific Research follows up the Educational Process in the College of Engineering**

(28/8/2021)



His excellency the College dean, Prof. Dr. Musaed AlAwad and the College vice deans welcomed his excellency the vice rector for graduate studies and scientific Research, Prof. Khaled Al-Humaizi. During the visit, the preparations to welcome the students were reviewed. The visit also reviewed the educational process in the College and made sure the precautionary measures were applied.

## **Renewed appointment of Dr. Muhammad Al-Mubaraki as head of the petroleum and natural gas engineering department**

(16/09/2021)



His Excellency the President of the University issued on 16/09/2021 a decision to renew the appointment of Dr. Muhammad bin Abdullah Al-Mubaraki as head of petroleum and natural gas department. The College congratulates Dr. Muhammad and wishes him success.

## Appointment of Prof. Dr. Othamn Alothman as new head of the chemical engineering department

(22/09/2021)



His Excellency the President of the University issued on 22/09/2021 a decision to appoint Prof. Dr. Othaman bin Yahia Alothman as new head of the chemical engineering department. The College congratulates Prof. Dr. Othaman and wishes him success.

## The College celebrates National Day



The College held a celebration on the occasion of the 91st National Day in the presence of his excellency the College dean, Prof. Dr. Musaed AlAwad, their excellencies the vice-deans and College's employees. All attendees expressed their patriotic feelings in a mural that was placed on the occasion of the 91st national day.



## **Memorandum of understanding between the college of engineering and Riyadh Valley company**

(13/10/2021)



A memorandum of understanding was signed between the College and Riyadh Valley company in order to support the outputs of the graduation projects and to enhance cooperation between the two parties. This cooperation aims to raise the quality of educational outputs and enhance the spirit of competition between graduation projects through the financial support provided by the Riyadh Valley company, which contributes to the development of the knowledge economy, the business and investment community on a commercial basis. The memorandum was signed in the presence of Prof. Dr. Musaed AlAwad (Dean of the College of Engineering) and Dr. Khalid Al-Saleh (CEO of Riyadh Valley Company). The signing was accompanied by a mini-party at the College headquarters.

## **Appointment of Dr. Abdullah Alfifi as new vice dean for graduate studies and scientific research**

(18/10/2021)



His Excellency the President of the University issued on 18/10/2021 a decision to appoint Dr. Abdullah Ben Yahia Alfifi as new vice dean for graduate studies and scientific research. The College congratulates Dr. Abdullah and wishes him success.

## **The college of engineering welcomes students from AlRowad high school**

(21/10/2021)



The Community Relations Unit in the College Vice deanship for development and quality hosted a student delegation from the Al-Rowad International High School. The delegation was received by the head of the Community Relations Unit, Dr. Aref Abbad, Eng. Hamza Asaad Al-Zoubi and Mr. Abdulaziz Alkhamis. The visit aimed primarily to introduce students to the college's specialties and the services provided to students. The College vice deanship also welcomed the students and emphasized the importance of community partnership, the role of the university in society, and the importance of students visiting various universities and educational centers, which will contribute to guidance in choosing the universities, colleges and specializations. After that the student activities supervisor in the school, Mr. AbdelElah Al-Olayani, gave thanks to the College. The school students toured some facilities of the college, visited the laboratories of the civil engineering department, the creativity and student innovation center and concluded the visit with a quick tour of the college lobby.

## **The college of engineering programs received the ABET accreditation**

(28/10/2021)



The College congratulates its employees on the occasion of the end of the (third) renewal visit (from 25/03/1443 to 29/03/1443) of the international academic accreditation (ABET) to all the seven undergraduate programs. The College dean, Prof. Dr. Musaed AlAwad thanked the vice deans, heads of departments, faculty members and employees for their continuous efforts in applying quality in the educational and research process. The ABET accreditation is an evaluation process that requires departments to carry out a comprehensive periodic evaluation of all academic activities. Continuous development of the quality of education is one of the most important elements for ABET accreditation, and to achieve this, the department sets specific and measurable goals, which students and graduates must achieve. Academic accreditation helps colleges and universities to follow an organized global approach to assessing, developing and improving the educational process, in addition to helping students and parents to choose colleges that provide high-quality education that enables graduates to obtain employment in government and private sector, as well as to complete their postgraduate studies in the most prestigious universities.

## **The college of engineering received a visit from KAUST**

(28/10/2021)



Within the framework of cooperation between Saudi universities, the College hosted a delegation from King Abdullah University of Sciences and Technology (KAUST). During the visit, a program was presented to the College students during the morning period. The program included an interactive presentation for college students about the university and a meeting with former graduates of King Saud University who are currently studying at KAUST. The meeting concluded with a discussion session about opportunities to join graduate programs at King Abdullah University. It is worth noting that King Saud University is the first stop for KAUST introduction program, which targets Saudi students in the scientific colleges of Saudi universities.

The visit also included a meeting with the college administration and representatives of the college departments to discuss aspects of joint cooperation in the field of research and education and the opportunities for teaching assistants and lecturers to join graduate programs. The meeting was attended by the College vice dean for educational affairs, Dr. Abdul Rahman bin Mahmoud and the vice-dean for graduate studies and scientific research, Dr. Abdullah Al-Fifi.

## **The college of engineering received a visit from the Saudi Council of Engineers**

(18/11/2021)



In continuation of the activities of the College, represented by the vice deanship for development and quality, the College hosted the Saudi Council of Engineers. The two sides discussed ways of joint and permanent cooperation in the field of engineering programs and events that can enhance the engineering content and build effective communication between faculty members in the College and the Council to achieve shared benefits. A presentation was also made in the College to a group of students from the College of engineering, students from the college of computer and Information systems and students from the college of architecture and planning to introduce the Council role in the system of practicing engineering professions, support of training programs, engineering tests, events, benefits and professional activities.

**Appointment of Dr. Essam Altubaishi as head of the College  
research center  
(21/11/2021)**

His excellency the president of the University issued on 21/11/2021 a decision to appoint Dr. Esam Bin Saleh Tbishi as head of the College research center. The College congratulates Dr. Esam and wishes him success.



**Dean's Cup for football  
(16/12/2021)**



The Sports activities committee in the College organized the Dean's Cup for football (quintessentially) between the departments. The tournament was held from 10 to 11 Jumada I 1443, in which more than 50 students participated. The cup was won by the mechanical engineering department team, after defeating in the final match its counterpart from the industrial engineering department. The final match was attended by the College vice dean for graduate studies and scientific research, Dr. Abdullah bin Yahya Al-Fifi, who distributed the cup and medals to the winners. The mechanical engineering department team included the students:

Abdulaziz Al-Dhibani, Ahmad Al-Hamad, Bandar Al-Asbali, Yazid Abdullah Banama, Omar Bahamam, Majed Al-Anzi, Mishaal Al-Ajaji, Al-Waleed Al-Rayes, Muhammad Al-Hasani, and Nawaf Al-Ateeq

The College dean Prof. Dr. Musaed AlAwad, congratulated the winners and presented them with certificates of appreciation and prizes. He thanked the student Mohieldin Raed for his efforts in following up with students, motivating them and coordinating sports events. He also thanked and congratulated the supervisor of sports activity in the College, Dr. Salim Maqrawi, for his efforts in supervising and managing sports programs and activities.

## Ceremony for Engineer Tariq Al-Qasabi award for excellence in civil engineering (22/12/2021)



A ceremony honoring winners of the Engineer Tariq Al-Qasabi Award for Excellence in Civil Engineering was held on Wednesday, May 18, 1443 , at Al-Diriyah Hall at King Saud University, under the patronage of his excellency the president of the University and in the presence of his excellency the vice-dean for graduate studies and scientific research, and the presence of his excellency the governor of the Saudi Standards and Metrology Organization, his excellency Eng. Tariq Al-Qasabi and their excellencies the College dean and vice deans.

The Engineer Tariq Al-Qasabi Award for Excellence in Civil Engineering is considered the first in quality in the Kingdom and the Middle East, as it is awarded to the best three researches in different civil engineering disciplines, targeting researchers in the Kingdom of Saudi Arabia and students on scholarships. The award is administered by the civil engineering department at the College of Engineering at King Saud University. The prizes for the current session (6th session) were as follow:

- First place: Dr. Fares Munshi, Environmental Engineering, from King Saud University.
- Second place: Dr. Bahaa Khatib, structural engineering major, from King Saud University
- Third place: Dr. Mohammed Al-Hashemi, majoring in construction engineering, from the University of British Columbia in Canada.

The winners received their awards from his excellency the sponsor of the ceremony, the sponsor of the award, and the College dean.

At the end of the ceremony, his excellency the head of the civil Engineering department / chairman of the scientific committee of the award and his excellency the College dean honored the sponsor of the award, his excellency Eng. Tariq Al

Qasabi, in recognition of his continuous support for scientific research and researchers in the field of civil engineering.□

### **Appointment of Dr. Ziyad Almutairi as new head of center of sustainable technologies** (11/1/2022)



His excellency the president of the University issued on 11/1/2022 a decision to appoint Dr. Ziyad Ben Ammar Almutairi as responsible for the center of sustainable technologies in the University. The College congratulates Dr. Ziyad for his appointment and wishes him success.

### **The Chemical Engineering department resumes its social activities** (17/1/2022)



The Department of Chemical Engineering resumed its periodic social meetings after the ease of precautionary measures. The meeting began with a welcoming speech from the head of the department, Prof. Othman Al-Othman, in which he thanked the department's staff for their integrated efforts, which resulted in the department obtaining ABET international academic accreditation for the third time. The department also honored its former head, Dr. Abdulaziz Al-Ghiyama, for his dedication to serving the department during his presidency of the department for three consecutive terms. The meeting also honored a number of students of the department who excelled academically. The meeting was attended by his excellency the vice rector for graduate studies and scientific research, Prof. Khalid bin Ibrahim Al-Humaizi and his excellency the College dean Prof. Musaed AlAwad and a number of former faculty members.

### **Lecture from the student guidance unit** (1/2/2022)



The Student Guidance Unit at the College of Engineering held a welcome lecture for new students for the year 1443.

### **Awareness program from the chair of climate change** (7/2/2022)



In line with the Green Saudi Initiative, the Chair of Climate Change, Environmental Development and Vegetation Cover, in cooperation with the National Center for the Development of Vegetation Cover and Combating Desertification, established an awareness program at the College of Engineering entitled: Preserving and developing vegetation, presented by Dr. Abdul Rahman Al Hashemi

### **Lecture from the student guidance unit** (16/2/2022)



The Vice Deanship for Educational and Academic Affairs represented by the Student Guidance Unit at the College held introductory lectures on engineering majors for general engineering students (non-specialized).

### Visit by college students to plastic factory (2/2/2022)



Proceeding from the directions of the Kingdom, represented in Vision 2030 launched by His Highness the Crown Prince (may God protect him) and the Green Saudi Initiative, which aims to improve the quality of life, protect future generations, achieve environmental and sustainable economy, the students of the Chemical Engineering Club, accompanied by Dr. Yousef Al-Enezi, assistant professor in the department, visited the Saudi “Summit” Plastics (STP) factories in Al-Kharj city to introduce students to the steps of recycling polymers into raw materials to achieve the concept of a sustainable economy. The students were received by Dr. Mansour Al-Buraiki, Director of the Industrial Sector at the Saudi “Summit” Factories, and a number of technicians in the factories. Saudi “Summit” Plastic Factory is one of the largest factories in the Kingdom in the field of purifying and filtering plastic granules and recycling them into primary products. The company has several other factories that recycle plastic into value-added final products. □

## Eng. Tariq Al-Qasabi prize for outstanding students (2/3/2022)



The College dean, Prof. Dr. Musaed AlAwad and Engineer Tariq bin Othman Al-Qasabi sponsored a ceremony honoring the outstanding students who won the "Eng. Tariq Al-Qasabi for Distinguished Students" award, in the presence of the College's vice-deans, heads of departments and a gathering of attendees. The ceremony began with the Holy Quran, with verses delivered by the student Abdullah Al-Huraibi, then a brief speech on the nomination mechanism for the award delivered by Dr. Muhammad Al-Manna, Head of the Student Guidance Unit, followed by a speech by the distinguished student, Musab Al-Salama, on behalf of his colleagues. Then the sponsor of the ceremony, Eng. Tariq Al-Qasabi, gave a speech urging the students to exert effort and diligence, highlighting the virtues of science and knowledge, and that excellence and knowledge excellence contribute to achieving the goals of the Kingdom's Vision 2030. Then the outstanding students which numbered 49 students from various engineering disciplines. were honored by the sponsor of the ceremony, Engineer Tariq Al-Qasabi, and the College dean.

## Visit from Islamic university of Madina to the college of engineering (21/3/2022)



A delegation from the college of engineering at the Islamic University of Madinah headed by Dr. Rayan El-Sisi, vice dean of the college of engineering for graduate studies and scientific research, Dr. Hamad El-Mohammadi, assistant professor in the department of chemical engineering, and Dr. Awal El-Din Mohamed made a visit to the College. The delegation met with the vice dean for academic affairs, Dr. Abdul Rahman bin Mahmoud, the College's vice dean for graduate studies and scientific research, Dr. Abdullah Al-Fifi, the head of the chemical engineering department, Dr. Othman Al-Othman, and a number of faculty members and researchers in the department of chemical engineering. This visit aimed to review the college's experience in building academic programs, students and research laboratory equipment in the field of chemical engineering

**Visit from the Environmental agency at the ministry of water to the college of engineering**  
(23/3/2022)



The College of Engineering received a delegation from the environment agency at the Ministry of environment, water and agriculture headed by Dr. Abdul Rahman Saleh Hariri, Director of the environmental capacity development department, and Eng. Abdul Rahman Ahmed Farea.

The delegation met with the vice dean for academic affairs, Dr. Abdul Rahman bin Mahmoud, head of the chemical engineering department, Dr. Othman Al-Othman, head of the civil engineering department, Dr. Youssef Al-Harbi, and a number of faculty members in the two departments. The visiting delegation was presented with an introduction on the College of Engineering and its human capabilities in the field of environment, student and research laboratories. This was followed by a presentation by his excellency Dr. Abdul Rahman Hariri on the agency's strategy and the opportunities for cooperation in educational aspects and human capacity rehabilitation, as well as aspects of future research opportunities. This visit aims to extend the cooperation between the College and the ministry and to strengthen the partnership between government agencies for the success of the Kingdom's Vision 2030 and the achievement of its objectives. □

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**Visit of College students to Riyadh refinery**  
(24/3/2022)



The Chemical Engineering Club organized a visit to the Aramco refinery in Riyadh. Dr Yousef Al-Anazi, assistant professor in the department accompanied the students on the visit. The students were received by a number of engineers and technicians working at the Riyadh Refinery. The visit included introducing the students to the knowledge, skills and technical steps and tools necessary to complete the various chemical processes carried out by the refinery. This visit comes within the framework of continuous cooperation between the Department of Chemical Engineering and the Riyadh refinery. This visit serves the vision of the department of chemical engineering to link what the student learns at the University to practical reality and enhance his awareness of engineering concepts. The Aramco refinery in Riyadh is one of the most important in the region, with a refining capacity of more than 100,000 barrels per day.

### **Course on academic accreditation**

(27/3/2022)



The College, in cooperation with the University deanship of development and quality and the deanship of skills development, organized a course on academic accreditation requirements, targeting faculty members in the college, as part of the college's efforts to enhance the concepts and practices of quality and academic accreditation.□

## Participation of college of engineering students in international robotics competition

(6/5/2022)



The KSU-VEX team, representing King Saud University, participated in one of the largest robotics competitions in the world, the VEX Robotics 2022 International Competition for Universities, which was held in Dallas, USA from 3-5 May 2022. The university team ranked (8) among (35) teams from international universities. The team played 10 matches and won 7 of them against some of the best American and Canadian teams. The team worked for more than four months in designing, building and programming robots, during which the Student Creativity and Innovation Center at the College of Engineering provided specialized training for the team's students to prepare them to design, manufacture and program the robot through specialized workshops in: 3D printing, design using the Solidworks program, and programming of microcontrollers. Five students were chosen to represent the team in the American city of Dallas, they are: Khaled bin Mahmoud bin Youssef Miftah, Talal bin Sultan bin Abdullah Al-Owaid, Yasser bin Theeb bin Saleh Al-Dalbahi, Ahmed Sayed Mumtaz Hosseini, and Muhammad bin Eid bin Muhammad Al-Matroudi.

## Electrical engineering club achievements

(22/5/2022)



The Student Club in Electrical Engineering was chosen among the top 10 clubs at the level of King Saud University. This achievement comes after a year full of honorable achievements and events presented by the club. The College deanship congratulates the club on this achievement and wishes it continued excellence. □

### **Al-huraibi is the college of engineering ideal student** (22/5/2022)



Abdullah Al-Huraibi, a student from the electrical engineering department was given the ideal student award at the college level. He was honored at the closing ceremony of student activities, which was held by the Deanship of Student Affairs at the university. The student received the award from his excellency the vice rector.

### **The chemical engineering department organizes an exhibition of graduation projects** (25/5/2022)



The department of chemical engineering held an exhibition of graduation projects for the second semester, under the supervision of Dr. Yousef Al-Enezi, assistant professor in the department, organized by the chemical engineering students club, and hosted by Al-Shorfa Restaurant.

The exhibition was inaugurated by the College dean Prof. Musaed AlAwad, and was attended by the college's vice deans, heads of departments and a number of the department's professors and students. The exhibition included more than ten joint projects in addition to the chemical vehicle project.

The head of the department, Prof. Othman Al-Othman, stated that this exhibition aims to highlight the efforts of students in graduation projects, raise the spirit of competition, refine presentation and communication skills, and introduce non-specialist students and students of other departments to the nature of the chemical engineering specialization through graduation projects. The head of the chemical engineering department also thanked the support of the College dean, the vice deans, the sponsors, the club and all participating students.

### **The electrical engineering department organizes an exhibition of graduation projects** (25/5/2022)



The department of electrical engineering at the College organized an exhibition of graduation projects for the second semester of the academic year 1443. 24 projects in fields including energy, communications, sensors, data processing, smart cars and electronic circuits participated in the exhibition. The exhibition also witnessed the presence of a number of representatives of the industrial bodies supporting the department and a number of representatives of the advisory committees. The tour included visit to the graduation projects lab which is being equipped by a generous support of Alstom, and which will be, God willing, the nucleus of a participatory environment and open to students to submit advanced graduation projects.

On this occasion, the head of the electrical engineering department extended his sincere thanks to the College dean, his deputies, members of the Advisory Committee and the participating students for their contribution to the success of the exhibition and the support they provide for the advancement of the department. The head of the department also praised the existing cooperation with industrial bodies, which will contribute to improving the department's output and directing students to work on graduation projects that solve practical problems and receive the attention of industrial bodies. □

**Annual ceremony of the college of engineering**  
(10/6/2022)



The College of Engineering held its annual ceremony to honor its retired employees and those whose period of work or their assignment to the College has expired. The ceremony was honored by his excellency the member of the Shura Council, Prof. Walid bin Muhammad Zahid and the vice rector, Prof. Abdullah bin Salman Al-Salman and the vice rector for graduate studies and scientific research, Prof. Khalid bin Ibrahim Al-Humaizi, and his excellency the vice rector for projects, Dr. Abdullah bin Mohammed Al-Sugair. The ceremony was held in the presence of his excellency the College dean, Prof. Musaed AlAwad, and his excellencies the vice deans, heads of departments, faculty members and employees of the college. The ceremony began with the Noble Qur'an, then the College dean welcomed the attendees and reviewed the College's achievements and briefed the audience on the most important developments in the college's work. At the conclusion of his speech, he expressed his thanks and appreciation to all the former vice deans, department heads, retirees, and those whose terms of work or assignment to the college have expired. The ceremony included an open discussion among the attendees.

**The College dean receives the student's guidance unit**  
(13/6/2022)



The College dean, Prof. Musaed bin Nasser Al-Awwad received in his office members of the Student Guidance Unit at the college, in the presence of the vice dean for academic and educational affairs, Dr. Abdul Rahman bin Mahmoud and the vice dean for quality and development, Dr. Majed Al-Tamimi. The dean and vice deans listened to a brief presentation on the achievements of the Student Guidance Unit during the academic year 1443 , presented by the head unit, Dr. Muhammad Al-Manna, in the presence and participation of the unit members: Prof. Imad Abu Al-Nasr, representative of the Industrial Engineering Department, Prof. Muhammad Jamal Al-Shannaq, representative of the Civil Engineering Department, Dr. Mohamed Ramadan, representative of the Mechanical Engineering Department, Dr. Abdullah Al-Ghaib, representative of the Electrical Engineering Department, Dr. Abdul Aziz bin Talib, representative of the Department of Chemical Engineering, and Dr. Fahad Al-Qahtani, representative of the Petroleum and Natural Gas Engineering Department. The unit's achievements included reorganizing the faculty's guidance mechanism by allocating a study guide for each student throughout his academic career in the department, preparing eight reference guides and booklets for faculty members, advisors and students. The unit also organized introductory meetings in each semester for new students, formed a program "Student Guide", established an annual award and ceremony for outstanding students in the college with external sponsorship, activated communication with students via e-mail and electronic screens at the college to broadcast awareness and guidance messages, held a course on "Academic Advising Skills" and followed up on stumbling and absent students who were given an exceptional opportunity. The College dean thanked the members of the Student Guidance Unit for their outstanding efforts during the academic year, which had a role in addressing stumbling and raising the college's outputs, and urged them to continue excellence.

## Riyadh Valley company sponsors graduation projects and student activities of the college of engineering

(16/6/2022)



The College of Engineering, with the participation of the Riyadh Valley Company, sponsored an exhibition and a ceremony to honor the graduation projects and distinguished student activities of the College. In his speech on the occasion, the College dean congratulated the projects nominated for the award and thanked the Riyadh Valley Company for its participation in sponsoring the graduation projects. For his part, Mr. Wael Hariri expressed his admiration for the students' performance and the quality of the projects

During the ceremony, awards and certificates of appreciation were distributed to students and professors supervising outstanding student projects and activities for the second semester of the academic year 1443 from the departments of civil, electrical, mechanical, industrial, chemical, petroleum and natural gas engineering. A project from chemical engineering won first place, while the second and third places went to mechanical engineering and industrial engineering, respectively. During the ceremony, distinguished club presidents and students participating in the student mentor program were honored. It is worth noting that the exhibition and the ceremony received a wide interaction from students and faculty members from various disciplines of the college.

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## New Patent by Dr. Fahd Waala

(20/6/2022)



Within the framework of the research priorities of King Saud University and in line with the objectives of the ambitious National Vision 2030 and the global trends in the scientific research sector, and as an extension of his research efforts and innovative achievements in the field of engineering sustainability, Dr Fahd bin Kachim Waala registered a patent with the Saudi Authority for Intellectual Property. The patent is useful in creating modern and unprecedented construction systems characterized by economic feasibility and taking into account the achievement of sustainability.

**266 students celebrate their graduation from the college of engineering**  
(18/6/2022)



Under the patronage of his excellency the College dean, Prof. Dr. Musaed AlAwad, the College celebrated in Hamad Al-Jasser Hall the graduation of the class of 1443.

The ceremony was honored by the presence of his excellency the president of King Saud University, Prof. Badran bin Abdul Rahman Al-Omar, his excellency the president of the public transport authority, Dr. Rumaih bin Muhammad Al-Rumaih, their excellencies the College's Vice-Deans, heads of departments, faculty members and the families of the graduate students.

The ceremony began with verses from the Holy Quran, recited by the student: Abdullah Al-Salim, followed by the march by the 266 College graduates. The College dean congratulated in his speech the graduates' and their families for reaping the fruits of their efforts and diligence throughout the years of study and the patience and perseverance they showed to reach their goals, wishing them success in achieving what they aspire to and working to invest the knowledge and science they gained in various engineering disciplines and fields.

His Excellency the President of the Transport Authority gave the speech on behalf of the parents in which he thanked the university, the college and the faculty members for the effort exerted in educating students and the college's excellence in its outputs, and gave some advice to the graduates to enter the labor market.

The graduate student, Abdul Rahman Al-Zouman, gave a speech on behalf of students and thanked the College dean and all faculty members, who were mentors and counsellors, and thanked the parents who had been supportive of their graduate children since the beginning of their scientific and practical career.

### **The University rector receives student's robot team** (29/6/2022)



His Excellency the President of the University, Prof. Dr. Badran Al-Omar, received the students participating in the VEX International Robotics Competition

**Graduate student Al-Karuri received an award by Society of petroleum engineering  
(1/7/2022)**



Master's student Osama Al-Karuri from the Department of Petroleum and Natural Gas Engineering won the third place in the competition organized by the Society of Petroleum Engineers for the Middle East and North Africa for his distinguished participation entitled:

Treatment of water associated with production using recycled plastic pellets and palm as deep purification media□

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