



College of Engineering Community

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Contents

Greeting Ceremony at the College on the Occasion of Eid Al-Adha	3
The College Dean meets the Faculty Members	3
Prof. AlAwad appointed a member of the National Committee for the World Petroleum Council	4
A delegation from the Korean Electric Power Company visited the College	5
Eng. Abdullah Buqshan sponsor of visiting student program hosted the College	5
Prof. Al-Bedah is appointed Director of Innovation and Entrepreneurship Unit in the College	6
The College SAAF team achieved advanced positions in the Shell Eco-Asia Marathon 2019 for Eco-friendly Vehicles	7
Greeting ceremony on the occasion of Eid Al-Fitr for year 1440 H	8
Prof. Dr. Al-Awad represents the University at the meeting of the Permanent National Committee for Maritime Disasters in the Kingdom's Waters	9
Dean award for the ideal technician for the second semester 1439-1440 H	9
The College presents awards and certificates to the winners of the satellite competition "CanSat"	10
Ceremony sponsored by BAE Systems Saudi Arabia and its Partners to honor Engineering graduation projects for the Second Semester of the year 1440 H	12
Participation of the College in the pre-graduate research competition in the UAE	13
Saudi Aramco's planning and academic programs department visits the College	15
Development projects within the third strategic plan of College 1439-1444 (2018-2023)	15
The College holds its annual ceremony for the academic year 1439-1440	16
Visit of the Secretary of the Embassy of South Korea to the College	17
Issues of the Journal of King Saud University (Engineering Sciences) are available electronically	18

Honoring the winners in the "Science Challenge"	18
The College Community Relations Unit participates in a workshop at the University	20
College scientific research output in 2018	20
College Research Excellence Day for 2018 (1439 / 1440H)	20
Participation of College students in the ninth Engineering Forum in the Sultanate of Oman	21
Meeting with the vice-supervisor of the University Alumni Center	22
The College met with the Standing Committee for the Prevention of Chemical and Biological Pollution	23
Dr. Basil Al Sadhan co-organizes a workshop on cybersecurity at the British University of Libra	23
The College hosted students from Al Manhal High School, Prince Mohammed Bin Saud Al-Kabeer High School and Jabal Tarek High school	24
The center for student creativity and innovation participates in the exhibition accompanying the second scientific research forum	25
College students visited South Korea	26
The College honored Eng. Abdullah Buqshan sponsor of the visiting student program	27
Introduction to Engineering Specialties (My future)	28
Dean award for the ideal employee for months of Jumada II and Rajab 1440	29
Visit to College of supervisor of the alumni affairs unit at the college of Arts	30

Greeting Ceremony at the College on the Occasion of Eid Al-Adha

The College held its annual greeting ceremony on the occasion of Eid Al-Adha 1440 H in the presence of the College dean, the vice deans, KSU vice rectors, faculty members and staff. Warm congratulations were exchanged during the ceremony.



The College Dean meets the Faculty Members

The College dean Prof. Dr. Waleed bin Mohammed Zahid accompanied by the vice deans met on April 15, 2019 the College faculty members. The dean welcomed the faculty members and thanked them for their efforts during the academic year 1439/1440. The dean then presented a summary of the achievements of the College and its future aspirations.

This was followed by listening to the interventions of faculty members and discussions that aimed to serve the strategic objectives of the College and the University.

At the end, the dean thanked the attendees and urged them to exert more efforts in order to maintain the College prestigious position in the ranks of advanced colleges.



Prof. AlAwad appointed a member of the National Committee for the World Petroleum Council

His Excellency the Minister of energy, industry and mineral resources, Eng. Khalid bin Abdulaziz Al-Falih, issued a ministerial Decree No. 3371/1440 dated 28/6/1440 H to restructure the Saudi national committee of the world petroleum council, chaired by HRH Prince Abdulaziz bin Salman bin Abdulaziz, minister of state for energy affairs, and with membership of twelve specialists from the ministry of energy, industry and mineral resources, Saudi Aramco, King Saud University, King Fahd University, King Abdulaziz City for Science and Technology, SABIC, TAQA, Aramco Gulf Business and Chevron Saudi Arabia. This committee is concerned with organizing the participation of specialists in the Kingdom of Saudi Arabia in the world conference of the world petroleum council. It nominates representatives of the Kingdom in the various committees of the Council.

Prof. Musaed bin Nasser AlAwad, vice-dean for development and quality and faculty member in petroleum and natural gas engineering department was selected a member of the Saudi National Committee of the World Petroleum Council. The World Petroleum Council (WPC) is a non-political organization accredited by the United Nations, dedicated to promoting the sustainable management of the world's petroleum resources for the benefit of all.

The Council organizes a World Petroleum Congress every three years in a Member State. The conference covers all aspects of the petroleum industry, including its management and its social, economic and environmental impact.

A delegation from the Korean Electric Power Company visited the College

A delegation from the Korean electric power Company (KEPCO), headed by the CEO of the company, Mr. Jung Cap Kim, visited the College on 23/1/2019. The company delegation met with the College dean Prof. Waleed Zahid, the vice deans and the head of the electrical engineering department. The meeting discussed possible cooperation between the College and the company.

The College dean presented a number of ideas of cooperation, including providing training for some College students in Korea during the summer vacation, the exchange of students between the College and colleges in Korea, in addition to the possibility of College faculty members to visit the company's research center in Korea to promote research cooperation.



Eng. Abdullah Buqshan sponsor of visiting student program hosted the College

The College represented by its dean Prof. Waleed bin Mohammed Zahid, the college's vice deans and heads of civil and electrical engineering departments were hosted on 11/6/2019 by his Excellency Eng. Abdullah Buqshan the sponsor of the visiting student program. The meeting was attended by a number of students nominated for the program for the first semester of the academic year 1441 H.

It should be noted that this program was launched 3 years ago, when seven students in the field of mechanical engineering were sent in 1438 H to Georgia Tech Institute followed in 1429 H by four students from electrical and four students from mechanical engineering department. In

1440 H, 15 students from different departments were sent to three American universities: Georgia Tech Institute, University of California Irvine and the University of Missouri for Science and Technology. For the year 1441 H, 16 students from various engineering disciplines will study at the University of Wisconsin-Madison, the University of Alabama and Georgia Tech Institute.

The program offers students a full scholarship to study for a full semester in the United States of America. The universities are selected based on their reputation and world ranking. During the program, students study a number of courses in his field of specialization and in accordance with the academic plan. In addition to the scientific aspect, the program enables students to develop social and English skills, and learn about other cultures.



Prof. Al-Bedah is appointed Director of Innovation and Entrepreneurship Unit in the College

His excellency the president of the University issued a decision appointing as of 10/8/1440 Dr. Abdulmohsen bin Ahmed Al-Bedah as director of the innovation and entrepreneurship development unit at the College in addition to his work. The College congratulates Prof. Bedah and asks God for help and success.

Prof. Al-Bedah is currently the vice dean for graduate studies and scientific research, in addition to supervising the center for student's creativity and innovation, and also supervising the College computer center.

The College SAAF team achieved advanced positions in the Shell Eco-Asia Marathon 2019 for Eco-friendly Vehicles

As a representative of King Saud University, SAAF team participated in the Shell Eco-Asia 2019 Marathon for Eco-vehicles, which was held at Sepang International Circuit in Kuala Lumpur from April 29 to May 2, 2019, in the category of gasoline-powered cars. The team ranked 15th among more than 100 teams participating in the competition, and second among the teams in the Middle East and North Africa by crossing a distance of 187 kilometers per liter of gasoline only.

The team is a multi-disciplinary engineering team, consisting of 25 students from different departments of the College. The team is supervised by Prof. Abdulmohsen Al-Bedah the director of the College student's creativity and innovation center. The eco-friendly car project is one of the center's extra-curricular projects aimed at stimulating students' creative abilities, providing a supportive environment, developing their planning and design skills and allowing them to gain practical experiences and participate effectively in international competitions.

It is worth mentioning that King Saud University has participated in the Shell Environmental Marathon since 2015, and has achieved advanced positions. In the 2015 Marathon in the Philippine the car "Riyadh 1" achieved 99.1 km per liter, recording the ninth place among 33 Asian teams participating in the competition, as well as the first place in Arab teams. The team was the first Saudi team that participated in this competition. At the 2017 Marathon in Singapore, the team participated with two cars: a petrol car and an electric car.

The gasoline car ranked first in the Middle East and North Africa, and seventh among 31 Asian teams, and traveled 287 kilometers per liter. The electric car also achieved the first place in the Middle East and North Africa, and 13th place among 24 Asian teams and covered 122 kilometers per kilowatt-hour. In the 2018 Marathon in Singapore, the gasoline car ranked first in the Middle East and North Africa for the second consecutive year. The team's ambition is to achieve new records and to benefit from the experience of previous years while working hard to achieve better performance. The team members participating in the competition were:

1. Abdul Qader Al Sharif
2. Ibrahim Al Bader
3. Omar Motasem
4. Hossam Al Jarbou
5. Faris Majali
6. Rakan Farzan
7. Maan Al Humaidi
8. Abdul Rahman Al Qurashi
9. Yousef Al Shomer
10. Abdulaziz Al Mutairi



Greeting ceremony on the occasion of Eid Al-Fitr for year 1440 H

The College held the annual greeting ceremony on the occasion of Eid Al-Fitr on 06/10/1440 in the College hall. The ceremony was honored by Prof.. Khalid Al-Humaizi, vice rector for graduate studies and scientific research, and Dr. Abdullah Al-Sugair, vice rector for projects, in the presence of the College dean Prof. Waleed Zahid and the college vice deans and staff.



Prof. Dr. Al-Awad represents the University at the meeting of the Permanent National Committee for Maritime Disasters in the Kingdom's Waters

Prof. Musaed bin Nasser Al-Awad, chairman of the College occupational safety committee and representative of the University in the permanent national committee for maritime disasters in the Kingdom of Saudi Arabia, participated at the 8th meeting and practical exercise (search and rescue) in Jazan port of Saudi Arabia.

The exercise implemented by the Permanent National Committee for Maritime Disasters in the Kingdom's waters aimed to train and assess the level of employees involved in the implementation of all elements of the plan, which include search and rescue, evacuation, firefighting, marine pollution control, transport and assistance to the affected, in addition to raising the level of joint performance of government and private agencies in the face of all kinds of potential threats and events that would expose innocent's safety to dangers.

Dean award for the ideal technician for the second semester 1439-1440 H

The Dean's award for ideal technician is an award for technicians working in the teaching laboratories, research laboratories and workshops of the College. The award is presented at the end of each semester to three technicians provided that the three are not from the same department. The technicians are nominated by the heads of their departments.

The aim of the award is to motivate technicians working in the laboratories to improve the speed and quality of their work, enhance self-confidence, take responsibility, support cooperation and transfer of experiences to colleagues and students as well as maintain the workplace in an organized way.

The first prize was presented by the end of the second semester of 1439/1440 H and was won by:

- Engineer Attia Al-Zahrani from the department of chemical engineering.
- Engineer Abdulatty Idris from the department of industrial engineering.
- Engineer Hamdi Al-Manzalawi from the department of mechanical engineering.

The three winners were honored by the College dean in the presence of the members of the College Council during the twenty-second session of the Council held on 16 Ramadan 1440 H.



The College presents awards and certificates to the winners of the satellite competition "CanSat"

The College dean, Prof. Waleed bin Mohammed Zahid, and in the presence of Prof. Dr. Abdulmohsin Albaddah the director of the student's creativity and innovation center honored on 3rd Ramadan 1440 H a number of students who participated in the satellite contest (CanSat) . The dean presented the prizes and certificates to the winners of the competition. Students from other groups were also honored with certificates of participation in the competition.

The winners of the first team included the students: Mishari Bajd Al Hammadi, Abdulrahman Saleh Babtain, Abdulrahman Mohammed Hamouda, and Abdul Aziz bin Abdulrahman AlBader (College of engineering). The winners of the second place team were: Wael Mousa AlAli, Abdulrahman Yasser AlKilani, and Mohammed Ghanem AlKilani (College of computer and information sciences). The third team consisted of students: Osama Ahmed Hammad, Mohammed Abdullah AlMisfer (College of engineering), and Mohammed Mahmoud AlNajrani. Student at the college of computer and information sciences.

The College dean stressed the importance of such extra-curricular activities organized by the center of student's creativity and innovation, as it represents opportunities for our students to express their creativity, and acquire skills in communications technology and satellites, in addition to the importance of the satellite competition in spreading the culture of aviation and space among university students, gaining practical experience in satellite technology and enhancing their personal skills.

It should be noted that the center of student's creativity and innovation is the organizer of the satellite competition (Can Sat). Students were selected from more than 300 students from different colleges of the University. The students were then divided into 6 teams, in numbers ranging from 4 to 7 students in each team, in addition to a female team consisting of 7 students

from the college of computer and information sciences. The center provided facilities, tools and training to help students design, manufacture and program the satellite parts. Students received training courses in Arduino microcontroller programming, 3D Printing satellite design and fabrication. Each team designed their own satellite, and then manufactured the satellite structure using 3D printers and then carried out the integration and programming of the components of the satellites that were launched the afternoon of Sunday, 29/8/1440 H using a special balloon in the site of the sustainable solar home within the University.

The performances of the participating teams were evaluated in the light of 6 specific criteria:

- Mechanical aspects (including: design and implementation of the structure), allocated 15 points.
- Electronic aspects (including: temperature and humidity sensor programming - gyroscope programming - camera programming - memory card programming and image recording), allocated 30 points.
- Communications (includes: connecting the transmitter to the board - setting the receiver - sending and receiving data remotely from Cansat), allocated 30 points.
- Cansat launch (includes Cansat launch and canopy opening), allocated 10 points.
- Creativity (includes the addition of creative touches in the design, implementation or programming Cansat), allocated 10 points.
- Attendance of the team (includes: arranging time and teamwork - attendance for courses and discipline), assigned 5 points.

The winning team won the first place with a score 99 out of 100, while the second team scored 98 points, and the third team 93 points.



Ceremony sponsored by BAE Systems Saudi Arabia and its Partners to honor Engineering graduation projects for the Second Semester of the year 1440 H

The College with the support of BAE Systems Saudi Arabia and its partners, held an exhibition and a ceremony to honor the distinguished graduation projects of the College under the patronage of His Excellency Prof. Waleed bin Mohammed Zahed and Mr. Tony Barton Executive of Saudi Maintenance and Supply Chain Management Company. In his speech, the dean stressed that the seven-year cooperation between the College and the company has contributed in improving the quality of graduation projects by motivating students and supervisors. Mr. Barton expressed his admiration for the students' performance and the quality of the projects. He also mentioned that cooperation with the College is considered one of the most successful university cooperation programs implemented by BAE Systems, if not the best, and they look forward to developing this cooperation in the future.

During the ceremony, awards and certificates of appreciation were distributed to students and professors supervising the distinguished graduation projects for the second semester of the academic year 1440 H in addition to the engineering design courses. The first place was awarded to a project of mechanical engineering, the second place to two projects of industrial and chemical engineering, and the third place to a project of electrical engineering, as follows:

- **First place:**

Project Title: Design of an electric propulsion system for vertical takeoff of a fixed wing drone (Mechanical Engineering Department)

Supervisor: Dr. Sherif Sadeq

Students: Abdulrahman bin Mohammed bin Abdulrahman AlQadi - Yazid bin Saud bin Nimr Alnefaie - Mohammed bin Hani bin Mohammed Al Sheikh - Abdullah bin Saleh bin Abdulaziz Sudais

- **Second place:**

Project Title: Redesign and manufacturing of a crutch to reduce stresses associated with its use (Industrial Engineering Department)

Supervisors: Dr. Tamer Mohamed Ahmed Khalaf and Dr. Saad bin Abdul Karim Al-Abdulkarim

Students: Basil bin Khalid bin Mohammed AlHalabi - Othman Abdul Rahman Abdullah Othman - Mohammed bin Yousef bin Mansour AlTurki - Mohammed bin Ali bin Mohammed AlLailhi monthly

- **Second place repeater:**

Project Title:

Optimal Design of Acetaldehyde production with water recycling and energy integration (Chemical Engineering Department)

Supervisors: Dr. Murad Bomaza and Dr. Mohamed Kamal Hadj Kali

Students: Faisal bin Abdullah bin Mohammed AlDosari - Moaz bin Abdullah bin Mohammed AlMansour - Mohammed bin Salah bin Abdulrahman Al-Essa - Faisal bin Khalid bin Saleh AlGhannam - Omar bin Abdulaziz bin Hamoud short.

- Third place:

Project Title: Self-driving drone (Indoor)

Supervisors: Dr.Saleh Abdullah Shubaily, and Dr. Tarek Abdulrahman Alshawi

Students: Sultan bin Mohammed bin Ghorman Zaidani monthly - Yasser bin Abdullah bin Ben Thiabi

BAE Systems and its partners were also honored for their sponsorship and continuous support for these projects.



Participation of the College in the pre-graduate research competition in the UAE

The College participated on the 14th Sha'ban 1440 in the seventh competition for pre-graduate research in Abu Dhabi in the United Arab Emirates. The competition consisted of eighteen branches in various sciences and skills such as chemistry, smart devices and others. The competition targeted projects and research for undergraduate education. More than 750

students from nearly 260 teams from across the GCC, such as Oman and Saudi Arabia, participated in the competition.

The College participated with the following projects:

1- “Inland Navigation Project using Vision-based quadcopter” under the supervision of Dr. Tariq Al-Shawi and Prof. Saleh Abdullah Shubaily.

2 – “Monitoring Eye” under the supervision of Dr. Tariq Al-Shawi and Prof. Abdullah Alswelaim

3 – “Screen display decorated using feroflood” under the supervision of Dr. Tariq Al-Shawi and Prof. Saleh Abdullah Shubaily

The “Inland Navigation” project was ranked first in the smart devices and technical support division.

Project Description:

The project is based on the use of a small self-driving aircraft, which can roam within dangerous areas to provide a blueprint for the area and determine the available routes and entrances and exits available.

The plane sends a live broadcast from the only camera installed to the earth station where it is processed using artificial intelligence and giving orders to the aircraft.



Saudi Aramco's planning and academic programs department visits the College

The College dean Prof. Waleed bin Mohammed Zahid, received on 24 Shaaban 1440 H, Mr. Abdulaziz Al-Akkas, head of the non-employees planning unit at the department of planning and academic programs of Saudi Aramco. The meeting was attended by the vice dean for educational and academic affairs Dr. Ahmed Al-Naeem. During the meeting, Saudi Aramco discussed the sponsorship of students of some engineering disciplines, and the preparation of a workshop with the company at the beginning of the next academic year (1441) to discuss strengthening cooperation.

It is worth mentioning that Saudi Aramco sponsors a number of undergraduate students from some departments within the student care program at the College.



Development projects within the third strategic plan of College 1439-1444 (2018-2023)

The third strategic plan of the College 1439-1444 (2018-2023) was formulated to achieve the vision and mission of the College and its strategic objectives consistent with the vision of the Kingdom of Saudi Arabia 2030 and the vision of King Saud University KSU2030. The third strategic plan of the College outlined many development initiatives that were formulated in the form of executive projects through the participation of the College departments its vice deanships, administration and students. The development initiatives were divided over five years, some of which are repeated annually and others have a specific implementation period.

The following executive projects have been approved during the year 1440 AH by the vice presidency for planning and development.

1. Preparing and applying for the National Academic Accreditation (NCAAA) for the graduate programs in the College which will include in the first stage:
 - a. PhD in Electrical and Industrial Engineering.
 - b. Master of Science programs in Electrical and Civil Engineering.
2. Examine the current regulations of the public and private sector related to the opportunities and training programs available to students and how to exploit them.
3. Continue to use and develop the Output Based Learning Management System (OBE) program to evaluate the learning outcomes and the performance of faculty members to ensure quality and achieve the requirements of international academic accreditation (ABET) and national academic accreditation (NCAAA).

The following projects are under accreditation by the Office of Vision Achievement at the University:

1. Developing an interactive computer system with a database of activities related to laboratory, research and human resources at the College and how to make it available to beneficiaries from inside and outside the university.
2. Marketing Outcome Based Education Management System (OBE) program for beneficiaries from outside the university.

The College holds its annual ceremony for the academic year 1439-1440

The College held its annual social ceremony in Nuwara Hall on Friday 14/8/1440 H. The ceremony was inaugurated with recitation of Holy Quran followed by a speech by the College dean Prof. Waleed bin Mohammed Zahid about the achievements of the college during the year. He also thanked all the employees of the College who worked together as an integrated team to achieve the objectives of the College during this year. The ceremony was honored by 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. After that were honored retired colleagues and those who contract was terminated. These were Fahd bin Muhanna Al-Sharhan, Sultan Sultan, Ibrahim bin Abdulrahman Al-Anbar from the College administration, Prof. Dr. Imad bin Suleiman Humaidhi, Eng. Abdul Bari Al-Arifi from petroleum and natural gas engineering department, Prof. Dr. Abdullah bin Ibrahim Al Muhaidib, Prof. Dr. Talal Bin Obaid Al-Refaie, Prof. Dr. Esmat Mohamed Al-Hassan, Prof. Dr. Ali bin Saeed Al-Ghamdi, Dr. Fahad Abanmi, Dr. Hisham El Fouly, Dr. Rifaat al-Shaykh, Dr. Muawiya Daf Allah, Eng. Galal Fathel Rahman Mahgoub from the department of civil engineering, Dr. Mohamed Fouad Zidan, Dr. Khalid bin Nasser Al-Ammar, Dr. Mohammed bin Abdul Rahman Al-Shebl, Ahmed Ibrahim Al-Wateed from the department of mechanical engineering, Dr. Mohammed bin Abdulrahman Al-Sheikh, Dr. Abdul Hameed Abdul Wahab Al-Ohali, Prof. Dr. Mohammed bin Abdulaziz Triki, Dr.

Majed bin Lafi Tamimi, Eng. Mohammed Osman Shidakhan from electrical engineering department, Eng. Mamoun Mohamed Abbas from chemical engineering department, Prof. Dr. Ali bin Mohammed al-Samhan and Dr. Mohammed bin Saad Al-Qahtani from the department of industrial engineering.



Visit of the Secretary of the Embassy of South Korea to the College

The secretary of the embassy of South Korea visited the College on 18/8/1440 AH, and was received by the College dean Prof. Waleed bin Mohammed Zahid, and the vice dean for graduate studies and scientific research, Pro. Abdulmohsen Al-Bedah. The dean gave a visual presentation about the University and the College and the potentials and activities of the College.



Issues of the Journal of King Saud University (Engineering Sciences) are available electronically

For more than a year, all the issues of the Journal of King Saud University - Science of Engineering - are available electronically starting in 1989 (the first issue) in the science direct site:

[https://www.sciencedirect.com/journal/journal-of-king-saud-university-en ...](https://www.sciencedirect.com/journal/journal-of-king-saud-university-en...)

The availability online of the journal issues came as a result of support of the College deanship. The College, during the research excellence day held by the College annually, supports the journal by honoring the researchers whose paper published in the journal achieved the highest citation in the past two years, and also the faculty member who reviewed the largest number of Journal articles during the past two years

The journal is included in the SCOPUS index, approved by the Scientific Council of King Saud University, and is published four times a year (in January, April, July and October). The journal publishes original research and review articles in various engineering and modern fields as well as renewable energy and water. The number of papers submitted to the magazine increased from 200 in 1437 to 459 in 1439. Each year, a special issue is also published.

Honoring the winners in the "Science Challenge"

Under the auspices of the University vice rector for educational and academic affairs, Prof. Mohammed Ben Saleh Alnemi, , the students creativity and innovation Center at the college of Engineering held on 3/8/1440 H a ceremony honoring the winning projects in the " Science Challenge " competition, in the presence of the College dean Prof. Waleed bin Mohammed Zahid. The ceremony was attended by the assistant vice president for educational and academic affairs for educational development Dr. Saud bin Nasser Al-Katheri. The ceremony was also attended by the College vice dean for graduate studies and research, Dr. Abdulmohsen bin Ahmed Al-Baddah, and the College vice dean for educational and academic affairs, Dr. Ahmed bin Mohammed Al-Naim, and from the company "Elm" Mohammed Al-Dakhil on behalf of the executive vice president of marketing , and Riyadh Souasi, general manager of research at the company, in addition to the heads of the departments of chemical and industrial engineering, a number of employees of the college, and the students who participated in the competition.

It is worth mentioning that the contest is a form of cooperation and partnership between the center for student creativity and innovation and the company "Elm". The competition aimed to support the creative ideas of students of King Saud University in solving real problems of social dimension, and turn these ideas into products. A number of problems were proposed to University students such as: helping people with disabilities to do their work independently, reducing the time spent by pilgrims at airports, reducing the use of mobile phones while driving, preventing and chasing stolen cars or car parts and waste recycling. Around 173 ideas were

received from the students as solutions to the proposed problems. The Center cooperated with the company "Em" in the discussion and evaluation of these ideas and 34 ideas in principle were adopted. The company "Em" provided financial support to 6 projects that contained implementation plans. Two projects won the competition with a financial reward of 20 thousand riyals for each project. These projects were "smart pharmacy" submitted by female students of the college of applied sciences, and "sorting and recycling waste" submitted by students from College of engineering.

A ceremony was held to honor the winners of the "Science Challenge" competition with an introductory tour to the center's corridors, during which Dr. Abdulmohsen Al-Bedah (Supervisor of the Center) presented the vision and objectives of the center, the stages of its establishment, the modern equipment available in it, and the mechanism used to support the students' creations and the most important current projects. The students then presented the prototypes of their winning projects, as well as a video explaining their respective stages and their possible practical uses. The ceremony ended with the distribution of certificates of appreciation and financial awards to the students of the two winning projects, and certificates for the students participating in the program "Idea", one of the extracurricular program designed by the Center to stimulate the creative thinking of university students.



The College Community Relations Unit participates in a workshop at the University

The College vice deanship for development and quality participated on 12 Sha'ban 1440 H at the Diriyah Hall in the workshop organized by the University deanship for planning and development (Office of community relations). The workshop was entitled: "Building and strengthening the links between the university and society in the light of the Kingdom's Vision 2030".

The College was represented in this workshop by Dr. Mohamed Abdel Fattah Sharaf, head of development and quality unit and Dr. Aref Abdullah Abadal, head of community relations unit at the College vice deanship for development and quality.

The College presented a working paper outlining the College vision towards the workshop axes and the reflection of volunteering work and community relations on the university.

College scientific research output in 2018

The number of scientific papers published by the College during 2018 was 340 ISI journals, 91% of which were published by the staff of academic departments, and 9% by the staff of chairs and research centers. The electrical engineering department achieved a high percentage of 25%, followed by the chemical engineering department with 23%. The mechanical, industrial, civil and petroleum engineering departments contributed 16%, 15%, 10% and 2%, respectively.

During the year, 33 patents were granted, of which 82% were from departmental staff and 18% from chair and research centers.

The number of papers published per faculty member was 2.63 for the chemical department, 2.26 for industrial, 1.95 for electrical, 1.36 for mechanical, 0.64 for civil, and 0.55 for petroleum. Compared to the average publication in the top 30 US universities for the same year, faculty members of the department of industrial, electrical and chemical engineering achieved higher values of 210%, 81% and 22%, respectively.

College Research Excellence Day for 2018 (1439 / 1440H)

The College held on 10/4/2019. Its scientific research day for the year 2018 (January to December 2018) under the auspices of the vice rector for graduate studies and scientific research and the presence on his behalf of the dean of scientific research Prof. Dr. Mohammed Al-Wabel .

The College has been organizing this event for years in order to raise the level of quality and abundance of scientific publishing. This year, the winners were honored in four categories: faculty researchers, researchers in research centers and chairs, young faculty researchers and graduate students.

The winners in the first category were Dr. Jamal Arafi from the department of mechanical engineering, Dr. Mohammed Rami Abdulrahman from the department of electrical engineering and Dr. Atiqur Rahman, Dr. Saqib Anwar and Dr. Shafiq Ahmed from the department of industrial engineering. In the second category, the award criteria were not applied to any applicants. The winners in third category were Dr. Ayman Al-Twaim from the civil engineering department and Dr. Mohammed Al-Otaibi from the department of electrical engineering. Finally, the winners in the fourth category were Eng. Wadih Amin Kayed and Eng. Dr. Bassem Motea Abdo from the department of industrial engineering (Ph.D. students), Eng. Mustafa Yahya Haddad from the department of mechanical engineering, and Eng. Muath Al-Ataifi from the department of industrial engineering (Master students).

In addition, Prof. Dr. AbdulHamid Ajbar, and Prof. Emad Ali were honored for their research "Study of advanced control of ethanol production through continuous fermentation", published in the Journal of King Saud University - Engineering Sciences, a work that achieved the highest number of citations during the years 2017 and 2018. Dr. Mahmoud Sayed Suleiman was honored for carrying out the highest number of reviews for the Journal during the years 2017 and 2018.

The event was attended by the College vice deans and department heads. The event was accompanied by an exhibition of postgraduate research.



Participation of College students in the ninth Engineering Forum in the Sultanate of Oman

Under the supervision of the College vice deanship for educational and academic affairs and within the framework of participation in engineering activities and forums, a delegation of students from the College participated in the ninth engineering forum held at Sultan Qaboos University in the Sultanate of Oman during the period from 1 to 3/8/1440. Different

engineering colleges presented graduation projects from inside and outside the Sultanate of Oman. The number of participating projects was more than 48, of which 10 were from outside Oman. The College was represented by students Muhannad Khalid Allsraa and Hamoud Abdullah Al-Janini from the department of civil engineering under the supervision of Dr. Saleh bin Ibrahim Al-Deghaither and Dr. Ahmed bin Mohammed Al-Naeem, who presented a project entitled:

“Alternative Design of Four simply Span Using Long Span Precast Pretension Concrete Girders”



Meeting with the vice-supervisor of the University Alumni Center

Dr. Abdullah Al-Muqrin, the vice-supervisor of the University alumni center met on 14 Rajab 1440 H with a team of College officials consisting of Prof. Musaad bin Nasser Al Awad, the vice dean for development and quality, Prof. Ahmed bin Mohammed Al-Naeem, the vice dean for academic affairs, Prof. Abdelhamid Ajbar, head of alumni affairs unit, Dr. Mohamed Sharaf, head of quality unit and Eng. Saad bin Nasser Al-Arifi, secretary of the alumni affairs unit at the College. The meeting reviewed the activities of the College's alumni affairs unit, the mechanism of communication with the University alumni center and the annual meetings of the College alumni. The meeting also reviewed the website of the College alumni and discussed difficulties

facing the work of the Unit as well as the support that the Alumni Center at King Saud University could provide to the College's alumni affairs unit.



The College met with the Standing Committee for the Prevention of Chemical and Biological Pollution

The College dean Prof. Waleed bin Mohammed Zahid, accompanied by the vice dean for development and quality (Chairman of the committee on occupational safety) Prof. Musaed bin Nasser Awad, met on 13 Rajab 1440 H with the chairman and members of the standing committee for the prevention of chemical and biological pollution at King Saud University

During the meeting, the team reviewed the activities of the laboratories and risk management unit at the College during the last period. The team also discussed several cooperative initiatives to develop the work of the standing committee for the prevention of chemical and biological pollution and the occupational safety committee at the College.

Dr. Basil Al Sadhan co-organizes a workshop on cybersecurity at the British University of Libra

The dean of admission and registration Dr. Basil bin Abdullah Al Sadhan, an assistant professor of network security in the electrical engineering department, attended and organized a

workshop on the uses of machine learning in cybersecurity at the British University of Libya where more than 20 researchers from several universities spoke.

The workshop is part of a research collaboration between a Saudi team led by Dr. Basil Al Sadhan, and a British team at the university of Loughborough, funded entirely by the British government through the British council. This cooperation resulted in the publication of a number of scientific papers in prestigious journals and scientific conferences, in addition to the organization of a workshop a year ago at King Saud University in cooperation with the Center of Excellence for Information Security, as well as many visits between the members of the two teams.



The College hosted students from Al Manhal High School, Prince Mohammed Bin Saud Al-Kabeer High School and Jabal Tarek High school

The College, represented by the community relations unit at the College vice deanship for development and quality, hosted on 19-2-2019 a student delegation from Al-Manhal High School, on 13-3-2019 a delegation from the Prince Mohammed Bin Saud Al-Kabeer High School and on 6-2-2018 a student delegation from Jabal Tarek high school. Students were greeted by the supervisors of the community relations unit Dr. Aref Abadil, Eng. Abdel-Rahman Salah, and Eng. Luay Al-Awad. The visit aimed primarily at introducing students to the College disciplines and services offered by the College to students. The students were introduced to College disciplines, ways to select discipline, benefits offered by King Saud University to its students, the preparatory programs and practical steps to be followed by the student in order to raise the benefit from his presence at the University on a personal and social level.

The students toured the facilities of the College where they visited the laboratories of the civil engineering department and the student's creativity and Innovation center. The visit concluded with a quick tour of the College lobby.



The center for student creativity and innovation participates in the exhibition accompanying the second scientific research forum

In the presence of a distinguished audience, the center for student creativity and innovation at the College participated in the exhibition accompanying the second scientific research forum organized by the deanship of scientific research at King Saud University, entitled "Investing in Scientific Research: Opportunities and Challenges". The forum was organized during the period from 12-16 / 6/1440 AH under the patronage of the Minister of Education, H.E. Prof. Hamad Al-Sheikh.

The Center presented three student projects. These projects were characterized by interdisciplinary, team work, collective research towards solving engineering problems and access to innovative engineering designs. These three projects were: "Sustainable solar house project" that participated in the 2018 Solar Building Competition in Dubai and was winner of the third place award for innovative solutions in the competition. The second project was the car participating in the Environmental Marathon Shell for energy-saving cars. The "Riyadh 1" car, which participated in the competition in 2015, achieved advanced positions in Asia. A film showing the stages of designing and manufacturing this car was presented. The film also showed the achievements of the later versions of the car during the years from 2016 to 2018. The third

project was the project of educational satellite, which is undergoing the final tests before its launch in the coming months.

It should be noted that the launching of the second scientific research forum at King Saud University began on Monday morning 13/6/1440 H with an opening ceremony in Hamad Al-Jasser Hall, in the presence of His Excellency Prof. Dr. Badran Al-Omar on behalf of the Minister of Education. The dean of scientific research, Prof. Dr. Khalid Al-Humaizi, delivered a speech at the ceremony. He explained the aspiration of the forum to optimize the investment of the University's research outputs, and to focus on research agendas associated with the Kingdom's vision 2030 and national transformation programs.

Prof. Ahmed Al-Amri, the vice rector for graduate studies and scientific research, delivered a speech in which he explained the great importance of scientific research and investment in knowledge in the modern global economy oriented towards knowledge economy. After the ceremony, the University rector and his companions opened the exhibition accompanying the forum and toured the exhibition of the participating parties. His Excellency visited the corner devoted to the Center for Student creativity and Innovation at the exhibition, and stressed the University's keenness to support the projects of the Center to achieve its desired goals.



College students visited South Korea

A delegation of students from the College visited South Korea during the mid-academic year 1439/1440. The delegation included the heads of the student clubs in the various departments

of the College; under the supervision Prof. Abdulmohsen bin Abdulrahman Al-Sheikh from the department of civil engineering, and the follow-up of the College dean Prof. Waleed bin Mohammed Zahid. The trip was preceded by a visit to the Korean Ambassador to the Kingdom for acquaintance and exchange of information. This trip was sponsored by the company Tatweer for Educational Services that believes in the educational impact of such visits and out of its social responsibility.

The students' visit aimed at learning about Korean engineering achievements and experience, and learning about Korean culture. The delegation visited major companies including Samsung, Hyundai, Bosco Steel, Bosco Construction, Korean Highway Company, Korean Energy Company and Hanmi Qulob Engineering Construction.

The delegation also visited some cultural monuments from museums and palaces such as Namsan Tower, Changdok Palace and South Korea Museum. The delegation also visited the Islamic Center in Seoul and the Saudi Cultural Mission in Korea and met with the cultural attaché Dr. Sami Al-Abdulwahab.



The College honored Eng. Abdullah Buqshan sponsor of the visiting student program

The College held a ceremony in honor of Engineer Abdullah Bugshan, the sponsor of the visiting student program for the academic years 1438/1439 H and 1439/1440 H under the patronage of

his Excellency the University vice president for academic and educational affairs. During the ceremony, the graduation projects carried out by the College students in a number of American universities were reviewed.



Introduction to Engineering Specialties (My future)

The College held on 28/5/1440 and for week activities aimed at the introduction of engineering disciplines (My future) in conjunction with the exhibition of the College programs for the second semester of the academic year 1439/1440 H. Lectures were given in various sections of the College by selected faculty members. The meeting was successful and witnessed a strong presence and interaction between the students and the College vice dean for academic affairs and lecturers,

The activities were organized in cooperation with the College vice deanship for education affairs and the student clubs. The success of this program was the result of work by all the various departments of the College and in cooperation with the following faculty members:

- Prof. Mohammed AlShannaq - Head of the advising unit
- Prof. Abdulaziz AlTamimi - Industrial engineering department
- Dr. Mohamed Abbas - Electrical engineering department
- Dr. Faisal Bin Yahya - Mechanical engineering department
- Dr. Abdulrahman Alrabiah - Department of chemical engineering
- Dr. Mohab Amin - Civil engineering department

- Dr. Mohammed Al Mubarak - Department of petroleum and natural gas engineering
- Dr. Ahmed Al-Sheikh - Civil engineering department (Survey engineering program)
- Dr. Taha Moawad - Petroleum & natural Gas engineering department
- Prof. Mohammed Bashir - Department of chemical engineering



Dean award for the ideal employee for months of Jumada II and Rajab 1440

Faleh Al-Rasheed, a technician in the College workshops was selected as the ideal employee for the month of Jumada II 1440 while Mohammed bin Faleh Al Rasheed, also a technician in the College workshops was awarded the title for the month of Jumada II 1440 AH to. The award aims to improve the performance and speed of achievement, enhance self-confidence and value of work, encourage positive competition among employees and encourage creative work methods that facilitate and increase the efficiency of work procedures and the conduct of transactions between the units of the College. The winners were honored by the College dean in the presence of members of the College Council at the beginning of the fourteenth session of the Council held on 6/6/1440.



Visit to College of supervisor of the alumni affairs unit at the college of Arts

Dr. Adel bin Abdul Qader Al-Makkenzi, associate professor in the department of media and supervisor of the alumni affairs unit in the college of arts, accompanied by Mr. Meshaal bin Mohammed Al-Wail, Lecturer at same department made a visit to the vice deanship of the College for development and quality. They were welcomed by Prof. Dr. Musaed bin Nasser Al Awad, vice dean for development and quality, and Dr. Mohammed Abdul Fattah Sharaf, acting head of development and quality unit. The meeting reviewed the activities of the alumni affairs unit at the College.



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