



College of Engineering Community

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College Annual Meeting for the Academic Year 2014/2015

The College organized its annual meeting of its employees and staff after Friday prayer on the 27th of Rajab, 1436. The meeting included a welcoming speech from the Dean Prof. Khalid I. Alhumaizi. After that, the following retired colleagues were honored: (Dr. Abdulaziz Salem Al-Ruwais from Electrical Engineering Dept., Dr. Abdulhameed Y. AlMazroo from Electrical Engineering Dept., Muhammad Abdullah Hamidi from Electrical Engineering Dept., Dr. Abdullah Mohammed Alqarni from Civil Engineering Dept., Eng. Ibrahim Hammad Alkhwaiter from Civil Engineering Dept., Eng. Fahad Khalid Alfouzan from Civil Engineering Dept., Ali Mohammed Alshehri from Civil Engineering Dept., Saad bin Mohammed Alkhatran from Civil Engineering Dept., Nasser Abdulaziz Alateeq from Civil Engineering Dept., and Saeed Misfer Almaliki from Civil Engineering Dept.).



Also, colleagues who have completed their period of employment were honored (Dr. Hany M. Hasanien from Electrical Engineering Dept., Dr. Syed Jamil Islam - Research Center, Dr. Hussain Ahmed Helmy from Industrial Engineering Dept., Dr. Mohammed Ali Eissa Saleh from Industrial Engineering Dept., Dr. Ashraf Mohamed Ahmed Farah from Civil Engineering Dept., and Eng. Ragab Elgammal from Civil Engineering Dept.). Also honored: Dr. Emadadeen Mustafa Kamal Ali who completed his term as head of the Chemical Engineering Department; Dr. Abdulrahman M. Al-Khomairi from Civil Engineering Dept. for moving to the University of Qassim; and Dr. Abdulhameed Mohammed Abduljabari the Secretary General of the University endowments for his efforts for the college.

The following college employees were also honored for excellence performance in work: Ahmed Jeza Alharbi from Dean's Office, Yusuf Rashid Alnkhalil from Mechanical Engineering Dept., Eng. Attia Awad Alzahrani from Chemical Engineering Dept., and Mubarak Khan from the Computer Unit.

“NCAAA” Accredits B.Sc. Programs of Chemical, Civil, and Mechanical Engineering

The B.Sc. programs of chemical, civil and mechanical engineering were accredited by the National Commission for Academic Accreditation & Assessment (NCAAA) in July 2015. It is worth mentioning that these programs are the first Bachelor of Engineering programs approved by the NCAAA in Saudi universities.



The other four B.Sc. programs (Electrical, Surveying, industrial and Petroleum & Natural Gas Engineering) were evaluated during the period of 26-30 April 2015, and the final accreditation decision would be issued in the near future by the NCAAA.

The NCAAA focuses on eleven standards which are divided on five key areas, including: 1 - Institutional context (the mission and objectives – program administration – management of program quality assurance); 2. Quality of teaching and learning; 3. Student learning support (student support and management services - learning resources); 4. Infrastructure support (facilities and equipment - financial planning & management – employment process); 5. Social contribution (scientific research - relationships with the community).

The Inauguration of the "Engineering Innovation Center" with Partnership between King Saud University, and Elm Company

Under the sponsorship of His Excellency the Vice President for Graduate Studies and Scientific Research, the opening of the engineering innovation center at College of Engineering was held on May 2015. During the ceremony a partnership and strategic cooperation agreement have been signed between Elm company and the College of Engineering at King Saud University, to sponsor the College Engineering Innovations Center.



Work has begun on the establishment of the center nearly three years ago with the support of Vice President for Educational and Academic Affairs as well as the Vice President for Graduate Studies and Scientific Research. The Center aims to develop innovative and creative thinking for

students, and enhance their skills and knowledge by providing a supportive environment for innovation to generate creative ideas and reflected in value-added process models.

The center includes the basic design, installation and measurement equipment in various scientific areas offered by the College of Engineering, as well as technical support to provide an opportunity for college students to implement innovative value-added projects. The Center is not necessarily associated with any of the classroom activities but aims to attract every student who has innovative ideas and wants to achieve them by taking the advantage of available devices, in addition to the directed framing and logistical support.



Elm-company explained in a press statement that it is looking to enhance the productive and fruitful partnerships through a scientific agreements and memorandums of understanding with relevant authorities, including King Saud University. The agreement with King Saud University will contribute to the provision of research ideas to solve the problems facing the labor market, provide innovative ideas to motivate students to work on them and convert them into products or value-added services, encourage students to business initiatives, and take advantage of the company's capabilities in productivity practices and speed to market. The company pointed out that this agreement will sponsor an annual award for innovative projects under the name "Elm" supervised and presented by the College of Engineering on behalf the University.

The College of Engineering-KSU Ranked Ninth in «Shell Eco-marathon 2015»

A team of College of Engineering students participated in the Shell Eco-marathon «Shell Eco-marathon 2015», which was held during the period between February 26 to March 1, 2015 in the Philippine capital Manila which was attended by more than 120 teams, representing 17 countries from all over the Asia-Pacific, Middle East and Africa, including new participants from Saudi Arabia, Australia, Bangladesh, and the Sultanate of Oman.



Achieving an overall ninth place in the marathon was a great achievement of the University team, given that it was its first participation in the marathon.

The team included: Baddy Alkeziz, Abdulkhaliq Alsultan, Omar Abunyan, Nayef Ahoikan, Walid Algaylan, Abdulrahman Alsati, Hussam Mohammed Almuhaize and Mohammed Hassan Alyafei from the Department of Mechanical Engineering, and Abdulkarim A'lait, Mohammed Alfayez and Mohammed Saeed Bayounis from the Department of Electrical Engineering. The team was supervised by both Dr. Abdulmohsen Al Bedah, and Dr. Mohanad AlAta.



The College students expressed their deep happiness for participating in this competition against teams representing universities and technical institutes from 16 countries, stating that their first goal is to take advantage of this experience and develop plans to enable them to solve energy-related issues.

This marathon allows student teams to participate in the experimental vehicles or modern vehicles class. The teams participating in the category of experimental vehicles design cars of the future, which are effective vehicles that focus on raising the efficiency of fuel consumption to the maximum extent possible through the use of elements of creative and innovative design. The modern vehicles category focuses on designing efficient high fuel consumption vehicles that can be used on the roads, and aims to meet the daily needs of drivers.

Members of the college team explained that they designed the gasoline-powered vehicle, and have applied their technical expertise in maintaining the lightness of the vehicle weight in order to increase fuel efficiency. The team used their creative skills in designing the car aerodynamics with precision and care.

Saudi Arabia participates for the first time in this global contest organized by the company «Shell» annually, started 6 decades ago, to design, manufacture and testing of energy-saving cars. In this competition there were two teams representing Saudi Arabia: King Saud University team and King Faisal University team, but the later did not finish the competition unfortunately.

International Practical Training Program for the Year 2014-2105

The College of Engineering with the continuous support of the Vice Rectorate for Educational and Academic Affairs continues its efforts in the development of the practical training program and in finding training opportunities for outstanding students outside the Kingdom. In the summer of the academic year 2014-2015, a total of 22 students from the departments of electrical, mechanical, chemical, industrial and civil engineering were trained in a number of universities and international companies: 6 students were trained in France and Germany with Areva, 8 students in France with the company EDF, 4 students in Canada and the United States with Bombardier Inc., and 4 students in Australia at the University of Sydney.

It should be mentioned that in the summer of 2010-2011 and the summer of 2011-2012, 6 students from the Electrical Engineering Department were trained at the Max Planck Institute in Germany. During the year 2012-2103, 18 students from various engineering disciplines were trained in four different locations in the United States and Canada in global companies and distinguished research institutes.

the number of overseas trainees for the academic year 2013-2014 was 51 students, the largest number since the start of the external training two years ago: 23 students in France and Germany with the French companies Areva and EDF which are working in the field of energy, 7 students in Germany with different companies in coordination with the German Society of Engineers and the Saudi Council of Engineers, 4 students in America and Canada with the Canadian Bombardier company, which operates in the field of transport, 4 students in Sydney University, Australia, in the field of energy and robotics, 9 students in Italy with the company ITEFERR specialized in the field of transport - trains, two students at the American University at North Carolina, and two students in US with the French company Airliquide specialized in the production of gases.

The College of Engineering Hosts An International Enrichment Program

During the month of July 2015, the College cooperated with the foundation of King Abdulaziz and His Companions for Giftedness and Creativity (TALENT) in hosting an international enrichment program hosted by lecturers from the US John Hopkins University. The College provided lecture halls, design laboratories and some laboratory equipment. The number of participating students reached 84, distributed on courses in Engineering Design and Fundamentals of Biomedical Engineering Principles.

Summer Enrichment Program for High School Students in the “Engineering Innovation Center”

Among the activities of the College and its role in serving the community, the Engineering Innovation Center organized the Engineering Enrichment Summer program in Engineering Design Principles during the period of July 26 to August 13, 2015 in collaboration with the Foundation of King Abdulaziz and His Companions for Giftedness and Creativity



(TALENT) and with the support of the University “Knowledge Industry System” and the “Science” company. A total of 40 high-school students participated in the program. The college provided daily transportation for the students.

This program aims to develop students' creative skills, guide them in accordance with their interests and abilities, enhance communication between students and the college of engineering and open promising prospects for the students to continue their education. The students received through this program specialized scientific activities and skills of advanced quality for the development of all personal aspects of engineering innovation and knowledge.



The Engineering Design Program was devised to introduce students to the basic concepts and principles of engineering and related activities. It provides students with opportunities to develop their skills and highlight them in the context of solving problems, enhance their skills of creative and critical thinking, the ability for decision-making, teamwork, planning and time management, as well as other skills, such as writing specialized technical and public speeches.

This program also focuses on teaching engineering design process through exposure to the challenges facing engineering design. Students also discuss relevant engineering issues such as safety, sustainability, and other important engineering practices. The program supports inquiry and query methods by asking specific questions rather than providing answers, and allows students to reach their own conclusions, and adopt a design process that involves review and documentation.

At the end of the program, a closing ceremony was organized under the auspices of the College Dean where certificates were awarded to participating students. The sponsoring parties and those in charge of the program were also honored. The College Dean delivered a speech at the ceremony, stressing the importance of the “Talent program” and the fact that it is consistent with the overall goal of the College in providing extra- curricular activities and an environment for the development of students’imaginative and creative abilities, for which the Engineering Innovation Center at the college was established. Mr. Saud Alsail from the Enriching Program of (Talent) as well as Dr. Mohammed Mohaimeed, the representative of “Science Company” also delivered speeches during the ceremony.

Workshop on “Experiments on Improving the Teaching of General Courses”

The college vice deanship for development and quality organized on Wednesday 8-4-1436 H a workshop on "Experiments on improving the teaching of general courses" in the presence of the Vice President for Educational and Academic Affairs, Dr. Abdullah Salman, the Dean of

Admissions, Dr. Abdulaziz Al-Othman, the Dean of the College, Dr. Khalid Alhumaizi and the College vice deans.

The workshop included presentations of the experiences that have been implemented in the second semester of the academic year 1434/1435 (2014/2015). Four courses have been the subject of the project. The following faculty members presented their experiences: Dr. Faisal Ben Yahia on GE 105 (Engineering Design), Dr. AbdulHamid Ajbar on GE 209 (Computer Programming), Dr. Iqbal Khan on GE 201 (Statics) , and Dr. Abdul Aziz Al-Tamimi on GE 404 (Engineering Management).



It is worth mentioning that the aim of the project is not to introduce changes in the courses contents but rather to improve the methodologies of teaching so as to develop in the students some basic skills such as self-learning, self-reliance, teamwork and analytical thinking, through the adoption of new techniques based on student-centered and active learning that are based on the formulation of clear learning outcomes instead of the traditional role where the student plays the role of passive recipient. This project serves the strategic objectives of the college by raising the scientific and professional levels of student, by finding effective ways to teach, and by working to provide the human and materials requirements of this process.

Introductory Lecture about the “Alumni and Employment” Website

The College of Engineering Vice deanship for Development and Quality organized an introductory lecture about the Alumni and Employment Website, which was launched in the second semester of the academic year 2014-2015. The lecture was attended by the dean of the college, Prof. Khalid Ibrahim Alhumaizi, and the college’s Vice Dean for Development and Quality, Dr. Waleed Zahid, as well as a number of faculty members and college



students. The lecture was delivered by Dr. Ahmed M. El-Sherbeeny (Head of Alumni and Employment Unit) on Tuesday, 18 Jumada-II, 1436H (April 7, 2015). Dr. El-Sherbeeny first presented the website objectives, features, and some relevant statistics. This was followed by an active, online presentation of website capabilities and options. Finally the floor was given to participants for discussion and questions, where some of the attendees provided some suggestions aimed at improving the performance and general layout of the website, all of which are to be implemented in the near future.

The site can be accessed through the college web site. Some of the main objectives of the site are: Building an information database dedicated to alumni through registration on the website, as well as updating personal, career-related information, and CV's; assisting in establishing communication amongst alumni and with the college of engineering through alumni blogs, alumni search engine, and contact page for inquiries directed to the Alumni and Employment Unit; assisting college alumni in locating and directly applying for job opportunities advertised by companies registered on the website; and developing an information database for companies through registration on the website, and regularly updating their profile, and making this information accessible for college alumni.

College Preparation for Academic Accreditation

On Tuesday 04/21/1436, Dr. Tee Chouwon (the advisor of the university deanship of quality) presented in coordination with the college vice deanship for development and quality a lecture on the types of guidance to be provided to the Engineering B.Sc. programs with respect to the international and national accreditation.



The meeting was attended by representatives of the departments committees of quality and the vice dean for development and quality.

In his lecture, Dr. Tee presented the role he could play to help the academic programs in the stages of preparation of action plans for both the international and national accreditation.

He also stressed the importance of the University quality management system (QMS) and the stages of its implementation and how it could benefit the performance development and improvement of self-study reports for academic Accreditation.

At the end of the discussion, Dr. Tee agreed to present another lecture in the coming weeks on the preparation of self-study report for international accreditation (ABET) and the required standards.

Reception for Non-Specialized Students

In the first week of the second semester of the academic year 2014/2015, the college of engineering represented by the unit of academic guidance to non-specialized students organized a campaign to welcome new students. The activities were held on Monday and Tuesday, 6-7 / 4/1436 H . The purpose was to increase student's awareness and introduce them to the electronic registration system adopted by the college and also to regulations, procedures and organization of studies and tests as well as to respond to their questions and inquiries. A brief introduction on the building and places of classrooms was given to student's

through the distribution of maps and brochures prepared by the deanship of the College and vice deanship for development and quality. These brochures contain important information of interest to the college student. Refreshments were provided to welcome the students.



Honoring Outstanding Graduation Projects for the Second Semester 2014/2015 under the Auspices of the BAE Systems



In coordination with the College Alumni & Employment Unit, and the College Quality Unit, the College of Engineering's Vice deanship of Development and Quality organized on Monday 14 IF Sha'ban, 1436 (June 1st, 2015) an exhibition and party to honor distinguished graduation projects for the second semester of the 1435/1436H academic year (Spring-2015) .

The event was hosted by BAE Systems' representative, Dr. Abdullatef Mohamed Al-AISheikh, and the College Dean, Professor Khalid Ibrahim Alhumaizi.

During the event, certificates and prizes were presented to 43 students from various college departments. In addition, honoring included 6 students of a multidisciplinary project involving both the Mechanical and Electrical Engineering departments. The supervising professors of these projects were also honored. Furthermore, 35 students from the Engineering Drawing and Engineering Design courses were also honored.

Extra-curricular Student Activities

Student extra-curricular activities are of great interest to the college administration, and are supervised by Eng. Adel Bin Ali Al-Yousef. The teams participating in extra-curricular events are:

- Members of the Student Council (the cultural and social club)
- Mechanical Engineering club
- Electrical Engineering Club
- Chemical Engineering club
- Civil Engineering club
- Industrial Engineering Club
- Petroleum & Natural Gas Engineering Club

The total events held during the second semester of this academic year (2014/2015) were 106 with more than fourteen thousands beneficiaries. The entire events can be found in the extracurricular student's report on the site:

This Issue was Prepared by:

- **Prof. Hameed Mohammed Ajbari**
- **Dr. Waleed M. Zahid**
- **Mr. Ahmad S. Alotayq**