

College of Engineering Community

A quarterly newsletter published by the Vice Deanship of Development and Quality

Issue No.4 – Aug 2014; Shawal 1435 H

Annual Meeting of College Employees for the Academic Year 1434-1435 (2013-2014)



The College held its annual meeting for its employees on Friday, 17 Rajab 1435 AH. The meeting included a welcome speech by the College Dean Prof. Dr. Ibrahim Alhumaizi ,and an honoring of former heads of departments and vice deans (Dr. Yasser bin Abdulkarim Turkish, Vice Dean for Academic Affairs, Dr. Majeed bin Abdulrahman Kanhal, head of the Department of Electrical Engineering , Dr. Hani bin Abdulrahman al-Ansari, Head of Department of Mechanical Engineering , Dr. Khalid bin Saad Dhafer, Chairman of the Department of Civil Engineering), and retired colleagues (Dr. Abdulrahman bin Khalid Aljabri, Dr. Abdelhalim bin Abdulaziz Mazi , Dr. Abdulaziz bin Omar Al-Jasser, Dr. Abdul Salam bin Abdul Mohsen Alshkir , Mr. Omar bin Abdullah Abu Abaya , Mr. Mustafa Sudse, Dr. Ayman Suleiman Ajeeb, Dr. Zahir Mohammed Zaafaran, Dr. Mussad Abdo Fouda, Mr. Abdullah bin Said Saaran, Mr. Salem bin Farhan Faress, Eng. Abdul Sattar Abdul Hadi Qitt, Eng. Samir Mohammed Ibrahim, Mr. Hamdi Mohammed Hassan, Eng. Modar

bin Majid al-Husseini , Eng. Musbah Khalil al-Bahlul, Dr. Majdi Abdul Aziz Zahou, Mr. Talat Farooq Nazir Ahmad, Mr . Khaled bin Abdul Aziz Hamid, Dr. Anwar Ahmed Maqbool Ahmed, and Eng. Wahid Mohammad Hafeez)

Day of Research Excellence at the College for the Academic Year 1434- 1435



Under the patronage of His Excellency Dr. Ahmed bin Salem Al Ameri, the Vice Rector for Graduate Studies and Scientific Research, the College organized its Research Excellence Day on 05/15/2014. The ceremony included the honoring of faculty and graduate students, as was the opening of the exhibition for postgraduate students research. The following faculty members (by order of merit) won the prizes: Dr. Saeed Al-Zahrani (chemical), Dr. Muhammad Ali (Mechanical) , Dr. Enas Alnashef (chemical), Dr. Youseef Saloom (civil) , Dr. Saleh AlShubaily (electric), Dr . Abddelhamid Ajbar (chemical), Dr. Nadeem Siddiqui (civil), Dr. Khalil Abdul Razak Almawjood (mechanical), Dr. Waleed Zahid (civil). Also won the awards the following

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Ph.D students: Milana Putra (chemical), Mohammed Salim (electric), Mohamed Osman (civil), Muhammad Naeem Haq (chemical). As for Master's students, the prizes were won by Majid Aldeebi (Electric) and Wasim Khan (chemical).

Second Forum for Graduates

Sponsored by the Rector of King Saud University Prof. Dr. Badran AlOmar, the College Vice Deanship for Development and Quality organized a meeting of the College of Engineering graduates under the theme "The Second Forum for Graduates of the College of Engineering" on the evening of Monday 5 May 2014 in Madareem Crown Hotel, as part of efforts carried out by the college to strengthen the relationship and communication with its alumni. About 250 graduates attended the meeting. It is worth mentioning that the college had previously organized the first meeting of graduates in the last year the night of the fiftieth anniversary of the founding of the College.



The ceremony began with a recitation of the verses of the Holy Quran and then a word by the College Dean Prof. Dr. Khalid Humaizi, a word of graduate students delivered by the

student Mohammed Omran, President of the Student Council of the College, and then a word of the sponsor of the event delivered on his behalf by Prof. Dr. Abdulaziz Al Ruwais, the University Vice Rector. Afterwards Dr Ahmed El-Sherbini, Head of Unit of Alumni and Employment Unit of the college Vice Deanship of Development and Quality, explained the components of the Website of the unit and how the graduates and companies can register. This was followed by words of the keynote speakers: (1) Eng. Saleh AlZahrani, Director General of the Western Branch for Saudi Saline Water Conversion Cooperation and a graduate of the Department of Chemical Engineering; (2) Eng. Abdul Rahman bin Ibrahim Al-Fayez from the Ministry of Petroleum and Mineral Resources, the supervisor of the maintenance and operating in the Ministry and a graduate of the Department of Petroleum Engineering and Natural gas; and (3) Eng. Ahmed Bin Mohammed Al-Issa Assistant Vice President of the Saudi Commission for Tourism and Antiquities for licenses, and a graduate of the Department of Civil Engineering. The speakers presented their practical experience and professional acquisitions. After that, Dr Waleed Zahid, the Vice-Dean for Development and Quality opened the door for dialogue.

Following that, Engineer Tariq Alqosaib, the sponsor of Tariq Alqosabi award of excellence in civil engineering in Saudi Arabia, gave a speech in which he praised the efforts of the College in support of scientific research. Then the winners of the prize and the keynote speakers were honored. Eng. Tariq Aqosaibi was also

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honored for his inception of the award as well as Prof. Dr. Abdul Mohsen Al-Sheikh a former faculty member of the Department of Civil Engineering and former vice Dean for Graduate Studies and Research, for his support of scientific research. Outstanding graduates in the first and second semesters of this academic year 1434-1435, were also honored. The number of outstanding students who had excellent rating (GPA of 4.5 and more) were about 50 students. All graduates were presented by certificates of congratulations on graduation (477 graduates).

Honoring the winners of the first Round of the Alqosaibi Award in Excellence in Civil Engineering in Saudi Arabia

Within the activities of the Second Meeting of the graduates of the College of Engineering, which was held on the evening of Monday, May 5, 2014 in the Great Hall Madareem Crown Hotel, as part of efforts by the college to strengthen the relationship and communication with alumni, the Tariq Alqosaibi award in excellence in civil engineering in Saudi Arabia for the academic year 1434-1435 was announced. Engineer Alqosaibi, along with the university vice rector Prof. Dr. Abdulaziz Al Ruwais and Dean of the College Prof. Dr. Khalid Alhumaizi, presented the award (fifty thousand riyals)m certificates and shields of congratulations to the winners. Was honored Engineer Alqosaibi for sponsoring the award. It is worth mentioning that the establishment of the award was announced

during the first forum for graduates in the last academic year 1433-1434 AH.



The title of the research winner was: "The use of nanotechnology to study the protective layer of corrosion of reinforcing steel in concrete under harsh environmental conditions". The research was carried out by Dr. Abdul Rahman bin Mohammed Alhzimi, Dr. Abdulaziz bin Ibrahim Nremish, by the late Dr. Rajah bin Zaid Al-Zaid (God bless his soul), and Dr. Raja Radwan Hussein. It was one of the research supported by the National Plan for Science, Technology at King Saud University. It took the completion of research about two years (1431-1433 AH), the results were published in 4 international conferences and 5 scientific journals ISI. The winning research deals with the steel corrosion in reinforced concrete, one of the main reasons that lead to the deterioration of concrete structures in Saudi Arabia, where chloride ions attack the protective thin layer of reinforcing steel (thickness of about 10 nanometers) and lead to rapid degradation. This is one of the most complex phenomena in terms of knowledge and control is still the traditional methods

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are not able to find effective solutions to them.

This research contributes to the transfer and settlement of nanotechnology and highlights the role of Saudi Arabia and King Saud University in research that relies on this cutting-edge technology which will have a positive impact on the development and support of research based on this technology.

Workshop to prepare for the assessment of some of the College programs by the National Commission for Assessment and Accreditation

In preparation for the visit to the College of reviewers from the National Commission for Assessment and Academic Accreditation (NCAAA) to evaluate the civil, mechanical, and chemical engineering programs in the period from May 3 to 8, 2014, the Vice Deanship for Development and Quality in cooperation with NCAAA organized a workshop on Sunday 13/04/2014 to review the readiness requirements of the programs for the visit.



A keynote speech was given by Dr. G. Maffet a consultant with NCAAA. The workshop was attended by members of the

accreditation committees of the three programs and heads of departments as well as by the Vice Dean for Development and Quality and the head of quality unit.

Imam University Visit the Chemical Engineering Department

The Chemical Engineering Department hosted recently a number of graduate students accompanied by Dr. Mahmoud Louzi from the Department of Chemical Engineering of the Islamic University of Imam Muhammad bin Saud. The delegation was welcome by the department chairman, Dr. Emad Ali, the researcher M . Eramayo Idris, and the supervisor of the department laboratories Eng. Walid Al-Qahtani. A tour of the department and lab facilities was organized for the delegation. The visit comes within the joint cooperation between the two universities for the exchange of knowledge and experience.



Some students from the Imam University received training in the Control lab of the department for four consecutive weeks. At the conclusion of the training, Dr. Louzi and the graduate students thanked the department and the University for the warm welcome they have received.

Honoring of the College Ideal Employee

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The College has honored its employee Khalid bin Hamad Galagel for excellence in the performance of his work during the past month in the student affairs unit. The honoring was attended by the Dean of the College Dr. Khalid Alhumaiizi and Vice Dean for Academic Affairs Dr. Ahmed Al-Sheikh, and the supervisor of the student affairs unit Abdulrahman Howaish.



Advisory Council for the College of Engineering at its third meeting

Under the patronage of the University Rector Prof. Badran AlOmar, the College organized the third meeting of its advisory board on Thursday February 27, 2014. The meeting was headed by the Dean of College Prof. Dr. Khalid bin Ibrahim Alhumaiizi on behalf of HE the university rector and in the presence of members of the Board:

- Prof. Dr. Mohammed bin Abdulrahman Al-Haidar (Al-Faisal University and former dean of the College of Engineering-King Saud University).
- Dr. Ghazi bin Mohammed Abbasi (Secretary General of the Saudi Council of Engineers).
- Eng. Awad bin Mohammed Makir (Executive Vice President of Manufacturing SABIC).

- Dr. Waleed bin Mohammed Zahid (Vice Dean for Development and Quality).
- Dr. Ahmed bin Hussein al-Sheikh (Vice Dean for Academic Affairs)
- Engineer Colonel Fakhri bin Abdul Ghani Bukhari (Military Works) on behalf of His Excellency Major General Engineer Khalid Qabbani (Director General of Military Works, Ministry of Defense and Aviation).
- Eng Osama bin Abdulaziz Al-Zamil (Vice President of Business Development group Zamil Holding Company) on behalf of His Excellency Dr. Abdulrahman bin Abdullah Al-Zamil.

The following board members could not attend the meeting:

- Eng. Ali bin Osman Al-Zaid (Chairman of the Board of Directors of Al-Zaid Group).
- Eng Badr bin Abdulrahman Bossbet (Head of division for development of Competencies - Aramco).



The Council was briefed on the annual report of the college for the academic year 1433/1434, and the College Dean made visual presentation about the most important achievements of the College and their development programs, statistics for graduates in all academic programs (BSc, MSc and Ph.D.), and analysis of surveys of

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college graduates and their careers, and cooperation agreements with some authorities to take care of outstanding students in the college, and summer training program for outstanding students, and other activities.

The Council discussed a number of topics including the accreditation for undergraduate programs, attraction of graduate students, and program of outside practical training outside, and proposition of adding members to the Advisory Board. The Council nominated Prof. Mohammed bin Abdulrahman Al Haidar as a president of the Council for two years starting from the beginning of the first semester of 1435/1436 AH.

Career Opportunities for Engineering Graduates from Boston Consulting Group

The College Vice Deanship for Development and Quality organized a student meeting with Boston Consulting Group on Wednesday February 19, 2014. The meeting was inaugurated by the College Dean Professor Khalid bin Ibrahim Alhumaizi with a welcome note and guidance to the students to benefit from this meeting for their future career. The meeting was attended by Dr. Alexander, one of partners in the Dubai's office, Mr. Christian Chwetzlar - project manager for the Dubai office, Mr. Ibrahim Mishari - project consultant for Riyadh office, and Ahmed Al -Tuwaijri assistant - consultant for Riyadh office.



This group made a presentation on the company activities in the field of consulting and employment opportunities available to the company, especially the Office of Riyadh, which is under construction. The meeting was attended by more than sixty students from various disciplines.

The College Welcomes Speaker form University of Carnegie Mellon

At the invitation from our Dean of Engineering, Professor Fiji Kumar Vice Dean of Engineering for faculty members and graduate studies at University of Carnegie Mellon, US, gave an introductory lecture on his college, academic programs and research activities. He also touched on the strategies adopted by the University to become one of the ten best colleges of engineering in US. The lecture took place on Sunday, 6 Jumada II in the presence of College vice deans, a number of department heads and faculty members. The discussion tackled ways of cooperation between King Saud University and Carnegie Mellon University.

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Activities of "My Future" for on-Specialized Students

The College Student Council organized in collaboration with the student clubs and the unit of academic advising, the Activity "My Future" in order for non-specialized students to get to know the disciplines in the College of Engineering and help them choose a specialty. In addition to introductions to different College disciplines and presentations from a number of lectures, an exhibition was set up in the College lobby. The exhibition and the activities lasted from Sunday to Thursday 6/6/1435 - 10/6/1435), and was inaugurated by the Dean of the College of Engineering Dr. Khalid Alhumaizi who made daily visits to the different wings of the exhibition.



Safety and Emergency Evacuation in the College

The College of Engineering hosted the Civil Defense of Riyadh to deliver lectures on safety and emergency on the occasion of the International Day of Civil Defense, entitled "Towards a Safe Community". The lectures were organized on Wednesday, May 11, as part of the activities of the College Committee on Occupational Safety. The lectures were presented by Captain Yahya bin Mohammed Zouman, and head of sergeants Ghani bin Abdullah Al -Omari of the Institute of Civil Defense.

The lectures included concepts of safety, risk types, sources, how to prevent them, and the means of evacuation in emergency situations. The attendance included Dr. Waleed bin Mohammed Zahid - Vice Dean for Development and Quality and chairman of the College Occupational Safety Committee, and Dr. Ahmed bin Hussein AlSheikh - Vice Dean for Academic Affairs, Engineer Nasser Bin Mosaraa Anzi - adviser for Safety and Emergency Management at University vice-rectorate for projects, and members of the College Committee on Occupational Safety, as well as a number of members of College faculty and staff, engineers, technicians, and a number of employees of the University Department of Safety and Security.

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Award for Civil Engineering

Dr. Iqbal Khan (Civil Engineering Department) was awarded the third Place in the KSU Award for Scientific-Excellence in the category of Discoveries, Innovations & Technology Licensing. The invention consists of a system and method for measuring porosity of high strength and high performance concrete using a vacuum-pressure saturation method. (US 8,256,268; September 4, 2012). The aim of the development of vacuum-pressure saturation apparatus was to achieve total absorption or full saturation of dense mortar and concrete to enable the estimation of porosity. The method is economical and environmental friendly.

Students Involved in Abroad Practical Training met with the Deanship of the College Engineering

On the 4th of June, 2014, students who will be joining the practical training outside the Kingdom, met with the Dean of the College. The meeting was attended by the College Vice Dean, and the Vice-Dean for the development of quality. In a speech the College Dean urged the students to take

advantage of this opportunity to develop their knowledge and skills in the areas of their training. Thereafter, there was an open discussion between the students and the College management.



It should be noted that the external training for this year is the largest in terms of number of students and the number of training opportunities, where 23 students will get their training in France and Germany with the French companies AREVA and EDF who are specialized in the field of energy, 7 students in Germany with different companies in coordination with the Society of German Engineers and the Saudi Council of Engineers, 4 students in the United States and Canada with the BOMBARDIER company working in the field of transport, 4 students in Australia at the University of SYDNEY in the field of energy and Robotics, 9 students in Italy with the company ITEFERR specialized in the field of transport/trains, 2 students in America at the University of NORTH CAROLINA, and 2 students in America with the French AIRLIQUIDE company specialized in the production of gases. Thus, the total number of overseas-trained students for this year reached 51, which is the largest number since the start of training program

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two years ago. It should be noted that this program is in collaboration with the Vice Presidency for Educational and Academic Affairs and has direct support from His Excellency the Vice rector for Educational and Academic Affairs

The College of Engineering Honors Outstanding Graduation Projects for the Second Semester 1434/1435 under the Auspices of the BAE Systems -SA

The College Vice Deanship for Development and Quality organized on Sunday, 10 August 1435 an exhibition and ceremony in honor of the distinguished graduation projects of the second semester 1434/1435, under the auspices of the Dean of the College of Engineering Prof. Khalid Bin Ibrahim Al-Humaizi, and Dr. AbdulLatif bin Mohammed Al Sheikh, Director General of the Department of Strategy and Development of the BAE Systems- Saudi Arabia. The audience visited the exhibition for posters of students' graduation projects. The exhibition included also posters of the best student projects in the course on "Introduction to design engineering", and the course on "Fundamentals of Engineering Drawing". The College dean gave a speech in which he congratulated the students and supervisors on their distinctiveness, and praised the cooperation with the BAE company and the continued support and sponsorship of honoring the outstanding graduation projects during the past three years. Dr Abdullatif Al-Sheikh of the BAE systems also gave a speech in which he stressed on the good outcome of the college partnership with BAE Systems and encouraged students and

motivated them for further outstanding work. This was followed by the distribution of prizes provided by the company, and certificates of excellence to 31 students of outstanding projects. Supervising professors of these projects were also honored.



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