IEEE Technical Talk at Al Ain University

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On 1 June 2016, the College of Engineering at Al Ain University of Science and Technology (AAU), in conjunction with the Joint Chapter of the UAE IEEE Microwave Theory and Techniques Society and IEEE Instrumentation and Measurement Society along with the IEEE AAU student branch, organized a technical talk, “The Engineering of the Human Joint: Advances in Orthopedics Research and Computer Navigation” presented by Dr. Farid Amirouche of the University of Illinois at Chicago, United States.

Dr. Amirouche joined the University of Illinois at Chicago in 1984 and is currently a Scholar Professor of mechanical and bioengineering there, as well as a full professor of orthopedics with the College of Medicine and director of orthopedics research. In addition, he directs the Biomechanics Research Laboratory, where he works with M.S. and Ph.D. degree students as well as M.D./Ph.D. degree students. He is the author of seven books and over 240 technical papers.

The talk was attended by AAU Vice President Dr. Abdulhafeez Belarbi, College of Engineering Dean Dr. Nazih Khaddaj Mallat, academic staff, researchers, and students from different AAU colleges.

Dr. Amirouche talked about total hip replacement (THR) as one of the most commonly performed orthopedic procedures to improve mobility and relieve pain for patients suffering from osteoarthritis of the hip. According to Dr. Amirouche, approximately 10% of patients with THRs have complications within five to ten years following the procedure and often require revision arthroplasty. Dr. Amirouche also explained that total knee arthroplasty (also known as total knee replacement) is another of the most commonly performed orthopedic procedures. His presentation highlighted current laboratory research efforts with the goal of advancing our understanding of the human joint using nanotechnology, imaging, and biosensors to design better implants.

At the end of the talk, as shown in Figure 1, Dr. Belarbi and Dr. Khaddaj Mallat honored Dr. Amirouche for his special efforts and stated that AAU will remain very active in serving the community by organizing technical seminars in different domains.

Figure 1. Dr. Farid Amirouche (center) being honored by AAU Vice President Belarbi (right) and Dr. Khaddaj Mallat, dean of the AAU College of Engineering.

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