Friday, December 14th, 2012, 4:00 P.M.
Room No. 109, DASAN bldg. 1st Floor

(Host: Prof. Hyuk-Sang, Kwon / Language: English)

Technical innovations in cardiac surgery

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Cardiac surgery has a rich tradition of innovation. From the development of cardiopulmonary bypass to the design of devices for the failing heart, technology continues to transform the field. Even sixty years ago, cardiac surgery was an impossible area for surgeons to perform.

In every moment of breakthrough of the cardiac surgery, surgeons and scientists have worked together as a team and made cardiac surgery possible. The innovations keep going to improve cardiac surgery right now.

In US, Medical care for cardiovascular diseases accounted for 6 of the 20 most expensive conditions billed to Medicare in 2006, totalling $103 billion. Many economists and policymakers believe that technological advances are a key driver of health expenditure growth. In addition, the market of medical devices or technology is one of the rapidest growing areas. Korean government earmarked health technology is the most promising core engine following the footsteps of the IT industry. In this point, scientists should find an effective ways to collaborate with medical doctors. Scientists should read doctors' clinical needs to develop medical devices, because doctors are the future buyers of the products. Science and medicine share the common concepts, but these are pretty different areas at the same time. Before collaborating with doctors, scientists should understand the different side of doctors.

In this lecture, we will look into the history of innovations which accomplished by doctors and scientist in cardiac surgery and consider the differences of doctors from scientists to work together.