Abstract: The world is now facing the reality that fossil fuels are a finite resource and the global environment is worsening due to increasing greenhouse gas (GHG) emissions caused by traditional fossil fuels. As a result, there is a renewed push for alternative energy technologies. Of the many alternative sustainable energy technologies that have been developed, nuclear energy remains a stable base load of clean energy that can work synergistic with renewable energy sources such as wind and solar. This lecture will overview nuclear energy and future development of nuclear energy after the Fukushima disaster. The main business opportunity at AREVA will be also briefed at the end of the talk.

Bio: Dr. Qi is currently working in AREVA TN as Principal Design Engineer. Dr. Qi has a diverse research and engineering background, which provides a broad range of experience in manufacturing fundamentals and the engineering sciences. He was hired as an assistant professor during his doctoral study at Tsinghua University from 1995-1996 in China. From 1998-2000, he worked as a JST researcher at the National Institute of Advanced Industrial Science and Technology in Japan. In May, 2000, he arrived in US as a postdoctoral fellow at the Johns Hopkins University. From 2000 to 2005, he worked in the University of Maryland as a research scientist in the Smart and Small Thermal Systems Lab. Since the fall of 2005, he has been working as senior thermal engineer in AREVA TN to develop innovative total systems solutions for used fuel and radioactive waste management.