

ECE Graduate Seminar

## **The Future of Quantum Computing**

**5:30 - 6:30 pm, October 15, 2009 (Thursday)**

**Room: P 144**

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### **Abstract**

Some quantum computing algorithms can be orders of magnitude faster than the fastest classical algorithms. The talk will take a look at quantum computing to see what we can expect from it in the near future. The prospects for building efficient quantum gates and implementation of quantum algorithms will be examined. This lecture will be of interest to all the Electrical and Computer engineering and Computer Science students.

### **Bio**

Dr. Kak is professor and head of Computer Science Department at Oklahoma State University in Stillwater. During 1979-2007, he was with Louisiana State University, Baton Rouge where he served most recently as Donald C. and Elaine T. Delaune Distinguished Professor of Electrical and Computer Engineering. His areas of interest include quantum computing, cryptography, neural networks, and history of science. Dr. Kak holds seven US patents, has authored several books and book chapters, and more than 100 research articles in these areas.