



# Spring 2011 Colloquium

## Temple University

### Computer and Information Sciences

#### *IIT's Spectrum Observatory – Spectrum Observations and Trends in the City of Chicago*

**Dennis Roberson**  
Illinois Institute of Technology

**Thursday, April 21, 11am, Wachman Hall 1015D**

**Abstract:**

IIT commenced operation of its Spectrum Observatory on 11 July 2007 coincident with a National Science Foundation Principal Investigator's meeting sponsored by Dr. Jie Wu and hosted at Illinois Institute of Technology in Chicago. The Observatory has been engaged in logging spectrum occupancy and related measurements and the analysis of this information since that time. This talk will provide a context and rationale for the Spectrum Observatory effort and an overview of the design of the Observatory itself. More importantly, some of the critical observations, key findings and the observed spectrum trends through this nearly four year period will be presented. The various applications for the use of this data and associated findings will also be discussed.

**Bio:**

Dennis A. Roberson is Vice Provost for Corporate Relations and Strategic Initiatives, and a Research Professor in Computer Science at Illinois Institute of Technology. In this capacity, he has responsibility for IIT's relationships with its various corporate partners and serves as the focus for the implementation of IIT's Strategic Plan. He also supports the development of new research centers, and the successful initiation and growth of IIT related technology-based business ventures. Professor Roberson is a co-founder of IIT's Wireless Network and Communications Research Center (WiNCom) and an educator in the wireless networking arena.

He is also the President of Roberson and Associates, LLC, a consulting firm primarily focused on wireless technology and technology management. He serves on the governing and / or advisory boards of several technology-based companies and on the FCC's Technology Advisory Council. Prior to IIT, he was EVP and CTO at Motorola. Professor Roberson has an extensive corporate career including major business and technology responsibilities at IBM, DEC (now part of HP), AT&T, and NCR. He is involved with a wide variety of Technology, Educational and Youth organizations and serves as a frequent speaker at universities, companies, technical workshops, and conferences around the globe. Professor Roberson has BS degrees in Electrical Engineering and in Physics from Washington State University and a MSEE degree from Stanford.

