

# University of Pittsburgh RFID Center of Excellence



**Tuesday September 2, 2008**

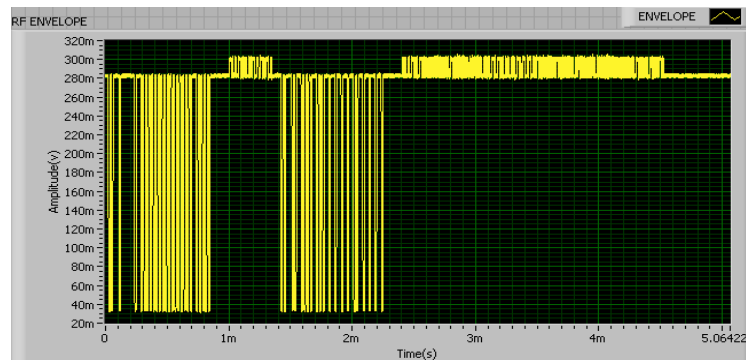
**Time: 6:30PM**

**University of Pittsburgh**

**Room 360 Benedum Hall**

**Archana Murari**

**Researcher, University of Pittsburgh**



## **“Timing and the Gen 2 Protocol”**

The "Gen-2" timing required for different read and/or write scenarios in a field of tags conforming to the ISO 18000-6c standard is a rather complicated scenario. Research is being conducted to parameterize various factors so that a person with minimum knowledge of the standard can analyze the choices for the different parameters of a passive RFID system to best suit a specific requirement. Particular parameters include the TARI value, the number of bits to read and write per instruction and most importantly the organization of the memory and its capacity in the tag. Other than the obvious factors, there are numerous points at which a statistical basis must also be considered for useful results. Additional research includes a noise model which will predict the effect of a noisy environment on the errors in data transfer between a reader and tag, which in turn will increase the time of operation. The distribution of the slot counter variable will also be considered to make the model more accurate to real world functioning of a tag.

**Questions and Discussion: 7:00PM**

**RFID Center Members will meet at 5:00PM in Room 330 Benedum Hall**

**For Additional Center Information: Call 412 / 624 - 9682**

**or email: [rfid@pitt.edu](mailto:rfid@pitt.edu)**