



**THE EMRSSS AREA SEMINAR
(EE 500 GRADUATE COLLOQUIUM)
Fall 2009**

*You are cordially invited to
The EMRSSS Area Seminar
Entitled*

“Secrets of Cassini-Huygens Space Mission”

By

Mr. Fred Thompson

The talk will take place on

**September 22, 2009
4:00 pm**

At

225 EE West Building

Talk Abstract:

Every wonder how the Cassini-Huygens Space Mission was able to return such great pictures of the planet Saturn and its largest moon, Titan, over a billion miles of space? Were you aware of one engineer's discovery which saved the entire multi-billion dollar project from failure? Very little has been printed about this complex technical problem and the solution.

This presentation covers the mission payloads and sophisticated communications systems required to communicate over a billion miles. The Cassini-Huygens Space Mission is a joint USA European Union mission still returning beautiful pictures.

Speaker's Bio:

Fred Thompson received his BSEE and MSEE from Penn State University. He has been a Radar Systems Instructor with the U.S. Army as well as a Design Engineer-SIGINT for Systems and Satellite Systems and a wireless systems consultant. He served as President of Locus, Inc., an electronics systems design and development company.

Fred has served as former President of the Penn State Engineering Society and is a former member of the College of Engineering IPAC group. Fred received the Penn State Outstanding Engineer Award. In 1998 Fred established the Thompson Graduate Engineering Endowed Fellowship.