



## *Introduction to Human Space Exploration and Medicine*

*An Elective Lecture Series Presented by the Center for Space Medicine*

### **Space Radiation: Health Risks and Mitigation Strategies**

**Speaker: Jeff Chancellor**

Radiation Scientist, National Space Biomedical Research Institute

Senior Project Manager, Baylor College of Medicine

Ph.D. candidate at TX A&M University

Wednesday, March 21, 2012

12:10 – 1:00 p.m.

Cullen Auditorium

#### Learning Objectives:

- Understand the types of radiation in the space environment and the effects of ionizing radiation
- Learn about the evolution and health risks to astronaut crews during a solar particle event (SPE)
- Learn about mitigation strategies - NASA Mission Control contingency procedures during a solar particle event
- Gain an understanding of the health risks to long duration mission crews because of the radiation environment outside of low Earth orbit (LEO)