

# Innovative System Project for the Increased Recruitment of Emerging STEM Students (InSPIRESS)



Overview

# InSPIRESS

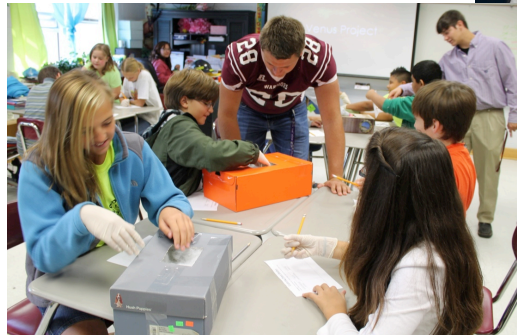


- Conceptual design of a scientific payload for a planetary science mission
- Interaction with college undergraduate students
- Community Engagement Activity (CEA) events engage local community in project
- Three component competition: proposal, open house, final review

# InSPIRESS History



- 7th year of operation
- Supported by Planetary Missions Program Office
- Phenomenal growth
  - Average of 20 high schools per year with 350-400 students
    - Highest year with 495
  - Expansion throughout North AL, Southern TN, and El Paso, TX
- Positive results
  - Students interested in STEM careers
  - Self-efficacy higher in STEM
  - Transforming classroom
- CEA event attendance growing
  - AY 13/14 – 18,016 visitors
  - AY 14/15 – 30,084 visitors



# AY15/16 Operating Plan



- Fall/Spring competitions
- Goals
  - 25 high schools
  - 500 high school students
  - 35,000 CEA visitors
- Expansion
  - North Alabama
  - El Paso, TX
  - Charleston, SC
  - North Dakota
- Challenge
  - Develop Titan balloon given DRM
  - Potential CEA – balloon launch