

Welcome Educators!



Information Session

September 9, 2009

History of Competition

- Inaugural Year
- Fiesta Bowl Contributions
- Honeywell Contributions
- Microsoft Contributions
- Challenger Space Center Contributions
- NASA Contributions

Program Overview

- Competition Overview & Purpose
 - 5th – 8th grades
 - Teams of 3-5 students
 - Scale model of an International Lunar Base
 - Lunar Base purpose is to prepare a launch site and structure for future missions to Mars.
 - Station must house a crew of up to 40 for two years

Program Overview

■ Basic Design Requirements

- Power sources
- Habitation modules
- Work modules
- Transportation systems/structures
- Landing and launch sites

■ Physical Presentation

- Interior designs and scale drawings
- Model
- Mission patch
- NOTE: A presentation board is not required however many teams bring one.

Program Overview

■ Living Conditions

- Food and Water
- Waste
- Air
- Gravity
- Shielding
- Location

■ Society

- Background of culture
- Human tasks
- Organization
- Communication
- Arts and Esthetic Values
- Medical Care

Program Overview

■ Primary Mission

- The primary mission of the lunar base is to prepare for a launch site and structure for a future mission to Mars.
 - Mining of Raw Materials for Helium 3
 - Processing of Helium 3
 - Storage of Helium 3

■ Secondary Mission

- Team may chose ONE topic from the options below and describe how it would be implemented on the Lunar Base.
 - Possible Uses of Robotics
 - Development of Lunar Tourism and Recreation

Scoring

- **6 Finalist Judging Categories (200 Points)**
 - Physical Presentation (35 Points)
 - Basic Design Requirements (30 Points)
 - Living Conditions (35 Points)
 - Society (35 Points)
 - Primary Mission (40 Points)
 - Secondary Mission (25 Points)
- **5 Honorable Mention Categories**

Judging Breakdown

- 8 Judging Teams
- 5 “Finalist Judging Teams”
- 3 “Honorable Mention Judging Teams”
- Each team will spend approximately 5 minutes with each team.

Miscellaneous Notes

- Creativity, Originality and Research are key!
- \$50.00 maximum and the use of recycled materials is encouraged.

Student Reporter Contest

- Students may submit an article individually or as a team.
- The content of the article is flexible, but must somehow relate to their experience during the Aerospace Challenge.
- One article will be selected from the submissions to appear on the Fiesta Bowl website and will be featured in the *Aerospace Republic* a commemorative program that all students receive at the preliminary competition and on the Fiesta Bowl website.
- Submission Deadline: **November 13, 2009**

Educator Resources

■ Educator Resources

■ www.aerospacechallenge.com

■ Includes:

- Project Timeline
- All necessary forms (media release, application, team photo form)
- Helpful web resources
- Contest rules, guidelines, design parameters, scoring, etc.

Preliminary/Final Competition

- **Preliminaries Competition – 2 DATES**
 - **Monday, December 7 OR Tuesday, December 8, 2009**
 - ASU at the West Campus, La Sala Ballroom (UCB)
4701 W. Thunderbird Rd. (47th Ave. & Thunderbird)
Phoenix, AZ 85306

- **Finals Competition – All teams are Welcome**
 - **Thursday, December 31, 2009**
 - Challenger Space Center
21170 N. 83rd Ave.
Peoria, AZ 85382

Preliminary Competition Overview

- It's a full day – so come prepared!
- Registration
- Judging Schedule
- Entertainment
- Lunch
- Finalists
 - 3 finalist teams selected from each day

Final Competition

- All Teams Welcome
- NASA Presentation
- Each team will deliver 10 minute oral presentation
- 8:00 a.m. - noon
- Judging
 - Panel of Honeywell judges
 - 28 points possible
 - Each team will begin with 1-3 points depending on their placement from the preliminaries.

Prizes & Awards

- 6 teams will move onto the Finals
 - 3 teams per day
- 20 teams will receive Honorable Mention Prizes
 - 10 teams per day
- **Grand Prize:** VIP trip to NASA in Houston & on-field presentation at the 2010 Tostitos Fiesta Bowl
- **Finalist Teams:** Plaque & Challenger Mission
- **All Participants:** Program, Team Photo, Certificate, T-shirt
- **Each School:** 1 Microsoft Software
 - i.e. Microsoft Student

How do I Participate?

- Each team must submit:
 - Application
 - Letter of commitment
 - Team photograph and quotation
 - Team name
- Each student must submit:
 - T-shirt size
 - Media release form
- Application Deadline: October 9, 2009
 - Space is filled on a first-come, first served basis.

The Twitter logo, consisting of the word "twitter" in a light blue, lowercase, sans-serif font with a white outline, centered within a white rectangular box.

**Follow the Aerospace
Challenge on Twitter!**

Username: FBAerospace