



Neil Armstrong Best Design Award Criteria

A design competition will be held of all NASA Rover Challenge entries. Two awards will be presented for "Neil Armstrong Best Design Award," one each to the best high school entry and best college/university entry. A team of judges selected by the AIAA AI-Miss section will determine, based on the material presented, which entries produced, documented and explained the machine's design features to best meet the performance requirements.

Note: This judgment is based on the professional opinion of the judges and not on the race results! The design competition will be composed of two parts:

- Written.
- Oral.

Written:

1. Each team will supply documentation detailing their design.
2. The teams' documentation should answer the "who, what, where, how and why's" of the design. Questions to be answered shall include, but are not limited to:
 - a. Who are the members of your team?
 - b. Who was responsible for what part of the project?
 - c. What did it cost? What would a second vehicle cost?
 - d. Where did you do the work?
 - e. What materials did you make the rover from?
 - f. How did you design it?
 - g. How did you build it?
 - h. How did you pay for it?
 - i. What design features enhance the robustness of the rover to ensure survival on the race course?
 - j. Why did you design it that way?
 - k. What part is most likely to break? Why? What can/should be done to minimize the effects of this failure?
 - l. What is the most important lesson learned on the project to date?
3. Documentation shall be limited to 10 (8.5 x 11) pages (10 single-sided or 5 double-sided) or the equivalent. Documentation in excess of 10 pages may be submitted but will not be distributed to the judges.
4. Documentation may be sent by one of the following three options:
 - a. Regular Mail: Postmarked no later than **April 5, 2014**, and sent to:
Tom Hancock
79 Hartington Drive
Madison, AL 35758
ATTN: Design Award
 - b. Emailed to tom.hancock@knology.net
If the email option is used, please send a postcard or letter by regular mail to the

above address so that we may confirm your submission.

c. Web Page: Send Web page address to the above email. Request confirmation that your information has been received.

Oral:

1. On race day, each team will present a short briefing explaining the features of their rover design. The rover team must be present for this briefing.
2. A one-page pamphlet may be distributed as part of this briefing.
3. The briefers will answer any questions asked by the design judges.
4. Only students may present/answer questions at this briefing. Translators will be allowed if needed. Answers by Advisers will be penalized!
5. Safety features and required equipment will be checked at the briefing. Note: This is not the only time these will be checked.

Questions about the Design Criteria should be directed to:

Tom Hancock

Email: tom.hancock@knology.net

Phone: 256-542-7075