

Moonbuggy Design Award Criteria

A design competition will be held of all moonbuggy entries. Two awards will be presented for "Best Design". One each to the best High School entry and best College 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 MoonBuggy best price to robust performance requirement.

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 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 do you make the Moonbuggy 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 moonbuggy 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 (8.5x11) pages (10 single sided or 5 double sided) or 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 **March 25, 2012** and sent to:
Tom Hancock
79 Hartington Drive
Madison, Alabama 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 e-mail. 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 MoonBuggy design. The teams MoonBuggy must be present for this briefing.
2. A one page pamphlet may be distributed as part of this briefing.
3. The briefers will answers 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

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