

# EVENT UPDATE No. 2020-1

## Team Scrapbook Guidelines

Rule 3.9: **Scrapbook** – As evidence that solar cars are designed and constructed by high school students, teams must maintain a scrapbook showing students working on all phases of the solar car project, including planning, design, CAD, fundraising, building, and testing the solar car. Teams shall submit a digital copy of the scrapbook no later than June 1st. Teams shall also submit a hard copy of the scrapbook at the time of Oral Presentations. Scrapbooks will become the property of the Solar Car Challenge upon submittal

- (1) Teams will email a digital copy of their Scrapbook to [lehmanm743@aol.com](mailto:lehmanm743@aol.com) no later than June 1<sup>st</sup>, 2020. A team's oral presentation score will be penalized for not providing a digital copy of their scrapbook.
- (2) Teams will present the hardcopy of their scrapbook during Team Check-In. Teams not having scrapbooks will not be cleared through registration.
- (3) Teams will turn in their scrapbook to the Oral Presentation Judges on their assigned day and time for their presentation. No team will be able to make an oral presentation without turning in a scrapbook.
- (4) The Scrapbook will be divided into two Sections:
  - (a) **Section One**: showing students working on all phases of the solar car project, including the planning, design, CAD, fundraising, building, and testing.
  - (b) **Section Two**: showing students design and engineering decisions through both narrative and photographs.

Engineering decision-making is the cornerstone of your solar car project. The Judges will want to see documentation showing your engineering challenges and how you resolved those issues. Please note that your decisions are often limited by budget, resource availability, and time for construction. The Judges will want you to explain these decision both in your scrapbook as well as during your Oral Presentation.

- (5) The Scrapbook will become the property of the Solar Car Challenge Foundation, and will become part of your official team documentation.

## Team Oral Presentation Guidelines

**Rule 3.10: Oral Presentation** – Teams shall prepare an oral presentation describing their solar car project. The team will have up to 8 minutes to give a full statement about the team's project. Teams will be graded based on whether the presentation gave a full statement about the team's project and engineering decisions made, whether all team members participated, whether the presentation was well prepared and rehearsed, whether the team was able to speak without the use of notes, whether the team used visual aids, and whether the team's scrapbook adequately showcases the team's progress and development of the vehicle. Judges will question the team on their engineering decisions. Teams will be awarded up to 20 miles for the quality of their presentation and answers to judge questions upon qualification into the event. Penalties received during the event cannot affect awarded miles from the Oral Presentation

- (1) Teams will “draw a number” at Team Check-In. This number will make the following determinations for teams:
  - (a) The number determines the **Official Starting Order** on the 1<sup>st</sup> Day of Racing
  - (b) The number determines the team’s Garage Bay location
    - **Solar Cars will be located in the CUP Garage;**
    - **Electric Solar-Powered Vehicles will be located in the Second Garage.**
  - (c) The number determines the team’s Pit Row location
  - (d) The number determines the team’s time to make your oral presentation
- (2) The Oral Presentation will be made in the TMS Media Center Auditorium. Teams should arrive at the front door of the Auditorium 5-10 minutes before their presentation. Teams arriving late will not get their time extended. Teachers, Advisors, and Parents will NOT be allowed to enter the auditorium to hear the presentation.
- (3) Teams planning to use audio-visual equipment in their presentation must bring their own equipment, and be capable of setting up that equipment in the time allocated for their presentation. Laptop computers should be “booted-up” before entering the auditorium. Teams will not have WiFi access. Any presentation should be installed on the laptop. The Race will provide a table for your equipment, and a projection screen.
- (4) Teams will submit their hardcopy scrap book to the judges on entering the auditorium.
- (5) Teams will have up to 8 minutes to make an oral presentation about their solar car project. Presentations, discussion, and questions will be precisely stopped at 8 minutes. Teams will demonstrate advance preparation by insuring their presentation does not exceed the 8 minute limitation.
- (6) At the end of the team’s 8-minute oral presentation, Judges will have 2 minutes to provide Immediate feedback to teams. In addition, each judge will have the opportunity to meet with small groups of teams after Oral Presentations are completed. This will provide a forum for additional feedback.
- (7) Teams must be prepared to give a well-organized oral presentation. Teams failing to demonstrate this preparation will be summarily dismissed without earning any laps. Topics to be included within the presentation:
  - (a) Overview of major segments of their vehicle project
  - (b) How is the team organized?
  - (c) What are unique aspects of their solar car design?
  - (d) Process showing how the vehicle was designed and built
- (8) Grading Criteria:
  - (a) Did the presentation give a full statement about the team’s project?
  - (b) **NEW:** Did the team explain their engineering decisions? For example, battery placement, array design, metal selection, body covering, etc.
  - (c) Did the team have documentation supporting their engineering decisions?
  - (d) Did **all** team members participate?  
**Teams are required to leave one team member with their solar car to provide security during the Oral Presentation period.**
  - (e) Was the presentation well prepared and rehearsed?
  - (f) Was the team able to speak without the use of notes?
  - (g) Did the team use visual aids?
  - (h) Did the team’s scrap book adequately showcase the team’s project?

- (9) Oral Presentation Judges may ask questions at the end of the team's presentation.  
The Judging Panel will be composed of Solar Car Challenge Staff and Engineers.
- (10) Teams will be awarded "forever" laps ranging from 0 to 20 laps. Results will be posted on the Media Center Auditorium door.