2018 Spellman High Voltage Electronics Clean Tech Competition

"Solving Climate Change"

Finalist Competition Scoring Sheet

Total Score: _____ /100 Team Name/#: _____ Judge's Name: _____

Thank you for serving as a judge for the
2018 Spellman High Voltage Electronics Clean Tech Competition.

- Please note that point values for each category may differ, so be sure to follow the sections of the rubric carefully.
- Partial credit for any criteria may be given, provided it is in the form of an integral number and not higher than the highest point value listed for that category.
- We encourage you to make notes in the margins, blank spaces, or designated "Notes" areas as the students are presenting.
- To calculate the final score, please add your scores for each category and record the sum in the "Total Score" fields at beginning and end of this document.

Notes:

	10 points	6 points	4 points	0 points
DESCRIPTION OF ASSIGNED PROBLEM Judge's Score: _____/10	Clear, detailed description of the problem and the need for the innovation is provided. Addresses a specific problem including the origins of the problem and the range of its effects.	Somewhat clear description of the problem is provided. Discusses the problem(s) with buildings, materials or other related problems but may not address the causes or impact sufficiently.	Mentions a problem and/or cause with little detail or support. States an issue that may be the result of problem(s) with buildings, materials or other related problems but is not realistic or accurate.	Zero points will be awarded if the description of the problem(s) with buildings, materials or other related problems or the need for innovation is not present.

	15 points	8 points	0 points
PROTOTYPE DESIGN Judge's Score: _____/15	Prototype design is economically feasible, realistically workable by intended users; sufficiently addresses the problem the team chose to pursue, and is powered with clean energy technology.	Prototype design fulfills only some of the aforementioned criteria, or all criteria are touched upon but not sufficiently or completely.	Prototype design lacks some of the necessary criteria or covers them very weakly or incorrectly, or the prototype is not powered with clean energy technology.

	15 points	8 points	0 points
PROTOTYPE FUNCTION Judge's Score: _____/15	Prototype functions properly and safely, is relevant to the needs of the intended user, and considerations have been made for performance under conditions of use.	Prototype functions but its efficiency could be improved, may not consider all the needs of its intended user, or would not function as expected under realistic conditions of use.	Prototype does not function as intended, does not address needs of the user, and could not function at all under realistic conditions of use.

	15 points	10 points	5 points	0 points
LIVE PRESENTATION Judge's Score: _____/15	Team is well spoken, presentation is organized and well thought out, all members appear knowledgeable about all aspects of their project, and questions from judges are answered thoroughly.	Team is organized and presentation is done well, attempt to answer questions from judges but lack ability to expand fully on their ideas when prompted.	Presentation is just satisfactory, and team is unable to elaborate or answer questions from judges.	Team is not prepared with materials and fails to answer questions from judges.

	10 points	6 points	4 points	0 points
SUPPORTING PRESENTATION DATA Judge's Score: _____/10	Supportive materials (which may include charts, diagrams, tables, graphs, slideshow, etc.) are presented professionally and in such as a way as to enhance understanding of the team's research and design process, and function of their innovation.	Supportive materials are used and are accurate, but lack significant contribution to the enhancement of understanding.	Some supportive materials are used, but may be unclear, inaccurate, or do not help to enhance presentation.	No supportive materials (charts, diagrams, tables, graphs, slideshow, etc.) are used to enhance presentation.

	10 points	5 points	0 points
ORIGINALITY Judge's Score: _____/10	Originality of design is apparent or explained by the team, or clearly original and significant improvements are made on an existing idea.	Project may have some original aspects but they are not clearly defined, or original improvements on an existing design are not significant.	Project is not an original idea, or does not improve on an existing idea in original ways.

	5 points	2 points	0 points
REFERENCES Judge's Score: _____/5	References are made in presentation and/or a separate reference sheet is provided which includes references for research on the problem and references used in development and/or documentation of the original idea are provided.	Some references are made but are incomplete or unclear.	No references are provided in any format.

	10 points	6 points	4 points	0 points
RESULTS AND CONCLUSION Judge's Score: _____/10	Team gives clear indication of how successfully the innovation performs its function, including thorough data from experimentation. Offers suggestions for improvements or the next step towards widespread use.	Team gives clear indication of how successfully the innovation performs including some data, and is mostly accurate. Attempts to offer suggestions for improvements or preliminary plans for the future.	Team attempts to address success of innovation but results appear flawed or the team's ideas for future widespread implementation are unrealistic.	Team does not address the success of their innovation and fails to address future plans or improvements.

	0 – 10 points *These points cannot be awarded until all teams have presented.
JUDGE'S DISCRETION Judge's Score: _____/10	What makes this project stand out above others? Notes: