



SOCIETY OF PHYSICS STUDENTS

An organization of the American Institute of Physics

Marsh White Award Report Template

Instructions: Please complete each section after reading the purple text describing what should be in that section. Then delete the purple text.

Project Proposal Title	Science Olympics
Name of School	Henderson State University
SPS Chapter Number	2798
Project Lead (name then email address)	Becca Voss, RV202248@reddies.hsu.edu
Total Amount Received from SPS	\$500
Total Amount Expended from SPS	\$2907.25

Summary of Award Activities

For this year's Science Olympics, we had 116 high school students from eight schools competing. These students came from up to three hours away to be part of our event. All participants competed, received lunch, and received shirts for free. There were no expenses to the teams or students to participate, thanks to generous sponsorships.

Teams could choose up to five events from the seven events possible. Events included: Biology bone challenge, Biology Neuronal Synapse, Chemistry Physical Separations, Chemistry Quantitative Analysis, Physics Mousetrap Car, Engineering Egg-stronaut, and Robotics LED Turret.

Statement of Activity

The entire Statement of Activities should be no more than 3 pages and organized as follows.

Overview of Award Activity

For the third year in a row, Society of Physics Students has been the lead organization on this event, managing all logistics and coordinating the other participating student groups. This year, Biology Club, Chemistry Club, Robotics Club, and the student chapter of the American Society for Engineering Education also participated in Science Olympics by hosting events.

For this year's Science Olympics, we had 116 high school students from eight schools competing. These students came from up to three hours away to be part of our event. The schools included Hot Springs High School, Lake Hamilton High School, Arkadelphia High School, Prescott High School, Poyen High School, Cedar Ridge High School, Genoa Central High School, and Little Rock Central High School. All participants competed, received lunch, and received shirts for free. There were no expenses to the teams or students to participate, thanks to generous sponsorships.

Teams could choose up to five events from the seven events possible. Events included: Biology bone challenge - on-the-spot challenge to reconstruct a human skeleton in the correct placement for a given layout; Biology Neuronal Synapse - prepared challenge where students built models of Neuronal Synapses and presented them to judges; Chemistry Physical Separations and Chemistry Quantitative Analysis; Physics - prepared challenge to build a mouse-trap car to travel 10 m in the fastest time possible; Engineering - on-the-spot challenge to build a thermal shield to protect an egg from direct flame for up to five minutes; and Robotics - Prepared Challenge to build a turret with a SparkFun kit (provided by us) that could recognize lit LEDs and "shoot them out" by making a sound as it turned to the lit LED.

Impact Assessment: How the Project/Activity/Event Promoted Interest in Physics

We sent out a survey to all participants of the Science Olympics. The feedback from high schools around the state indicated that they had an enjoyable learning experience and are looking forward to the event next year. This shows the impact we are having on creating a passion for Science in the next generation of students.

Key Metrics and Reflection

Please answer the questions below. Please indicate if a question is not applicable to your project.

Who was the target audience of your project?	High School Students
How many attendees/participants were directly impacted by your project? Please describe them (for example "50 third grade students" or "25 families").	116 High School Students and their teachers
How many students from your SPS chapter were involved in the activity, and in what capacity?	All members of our SPS chapter were involved in this event, from hosting events, to helping set up and register groups and activities.
Was the amount of money you received from SPS sufficient to carry out the activities outlined in your proposal? Could you have used additional funding? If yes, how much would you have liked and how would the additional funding have augmented your activity?	The amount of money received was not adequate to cover the entire event, but was a huge help. The remainder of the expenses were covered by the student activities board and Suddenlink, a local sponsor.
Do you anticipate repeating this project/activity/event in the future, or having a follow-up project/activity/event? If yes, please describe.	Yes, we are planning to continue it as an annual event.
What new relationships did you build through this project?	We build better relationships with high schools and other student organizations. We infact had an increase in SPS membership from this event.
If you were to do your project again, what would you do differently?	In the future we desire to have more local industry sponsprship to allow this event to grow and remain free to students. We may also start awarding a plaque in each event instead of just ribbons.

Press Coverage (if applicable)

Currently the event was posted on social media, but we may also be covered in the Tri-Lakes edition of the Democrat-Gazette.

Expenditures

Please provide a brief explanation of your expenses. Include a written description of your expenditures below, those covered by your SPS funding and by other funding sources, and then fill in the table with the name and cost of each item purchased with your SPS funding. Add rows as needed.

Expenditure Table

Item	Please explain how this expense relates to your project as outlined in your proposal.	Cost
Lunch	We provided lunch for all the participants	\$776.84
Award Ribbons		\$234.70
Supplies for Engeneering	These supplies were used to put on some of the events.	\$143.00
T-shirts and Overall Winner Plaque	These items' expenses were covered by Suddenlink but were an expense incurred with the event	\$1752.71
Total of Expenses		\$2907.25

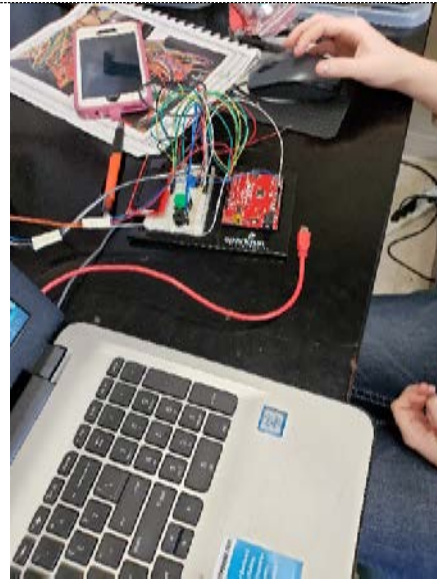
In the table above \$500 was covered by SPS national with this the Marsh White Award, \$500 was covered by our Student Activities Board on Henderson State University campus, and the remainder was covered by Suddenlink.

Activity Photos



This is the robotics turret set up, "shooting out" the LEDs

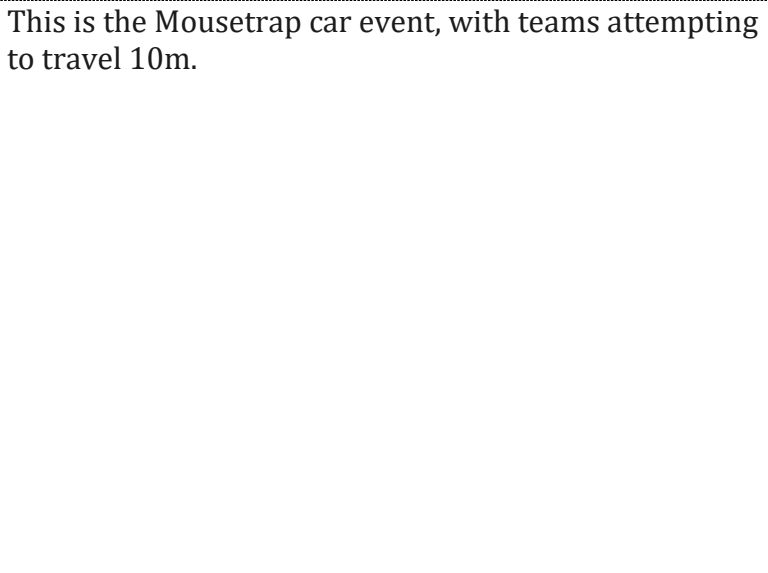
This is the SparkFun inventor's kit that was provided to robotics teams.



2013-2014 Marsh White Award Final Report Template



This is the thermal shield event with SPS and ASEE members manning the flames.



This is the Mousetrap car event, with teams attempting to travel 10m.



Volunteers pose with the Mayor of Arkadelphia and our Suddenlink Sponsors



If you have any questions, please contact the SPS National Office Staff
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