

Marsh White Award Report Template

Project Proposal Title	Phenomenal Physics Field Day	
Name of School	Rhodes College	
SPS Chapter Number	5940	
Project Lead	Stefan McCarty	
(name then email address)	mccsj@rhodes.edu	
Additional Project Leads	Morgan Smathers, Zain Kinnare, Edo Draetta	
(two lists: names then emails)	smamr@rhodes.edu, kinzs-15@rhodes.edu, drael-16@rhodes.edu	
SPS Chapter Advisor	Brent Hoffmeister	
Total Amount Received from SPS	\$300.00	
Total Amount Expended from SPS	\$256.00	

Summary of Award Activities

The Rhodes College Society of Physics Students hosted a science day for high school students. The goal of this event was to spark the curiosity of the students and interest them in the sciences.

Statement of Activity

Overview of Award Activity

We focused on 5 fields of physics. They were Pressure, Magnetism, Forces, Resonance, and Light. The demos that we used to demonstrate those fields were the Theremin, Vanda Graff generator, fire tornado, Rueben's tube, flux trapping, thunder tube, can implosion, vacuum chamber, and several centripetal motion demos. We had stations set up where we had our SPS members giving presentations on one of the fields by using the demos as points of explanation.

We started off with a 10-15 minute introduction session, where we gave a brief overview of the event, as well answering questions to gage the students' understanding of the material. The students who showed up were currently taking a high school physics class, so we were able to explain our demonstrations more thoroughly than we typically could for elementary school students. After this intro, we let the students walk around to the different stations and enjoy more personalized attention.

Since turnout was low, a couple of our dedicated members decided to reach out to a local comic book convention which was taking place that weekend and secured a spot for us to take a couple of our prepared demonstrations from this event to share. Five of the volunteers from SPS packed very exciting demos and drove to the convention. Due to another mishap, they arrived during the featured presentations of the afternoon and thus missed the possible science enthusiasts there. We look forward to trying again next year, though!

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

We have learned that we need to find a better time of year to host large outreach events and to sharpen up our communication techniques to ensure better success in the future. After talking with the six students who attended the Phenomenal Physics Field Day, we decided that the material we had prepared was more than adequate for the intended audience and did promote further interest in Physics.

Key Metrics and Reflection

Who was the target audience of your project?	High school students
How many attendees/participants were directly impacted by your project?	6 high school students
Please describe them (for example "50 third grade students" or "25 families").	
How many students from your SPS chapter were involved	14 Rhodes SPS members prepared and
in the activity, and in what capacity?	presented 10 minute demo presentations
Was the amount of money you received from SPS	We had budgeted and received \$300
sufficient to carry out the activities outlined in your	from SPS national, but due to
proposal?	miscommunications and some planning
Could you have used additional funding? If yes, how much would you have liked and how would the additional	difficulties, we used \$256 for this event
funding have augmented your activity?	and used the remainder for our other
, ,	outreach efforts including a weather
	balloon project with local high school
	students.
Do you anticipate repeating this project/activity/event in	We might try this event again. More
the future, or having a follow-up project/activity/event? If	likely, though, we will use our efforts
yes, please describe.	and demonstrations made for this event
	in other forms of outreach.
What new relationships did you build through this	We started communicating with local
project?	high schools for the first time and hope
	to continue to in the future.
If you were to do your project again, what would you do	We would plan this for a less busy time
differently?	of year and secure better communication
	with the high schools.

Press Coverage (if applicable)

N/A

Expenditures

Expenditure Table

Item	Cost
Acetone	\$36
Liquid Nitrogen	\$40
Propane	\$50
Gas/Transportation	\$30
SD Card	\$21
Small Vacuum Bell	\$75
Marshmallow Peeps	\$4
Total of Expenses	\$256

Activity Photos

Please include captions and credits for each photo. By including photos below, you are giving SPS and the American Institute of Physics permission to use these photos in their online and printed publications.



Memphis high school students observing a flux trapping demo