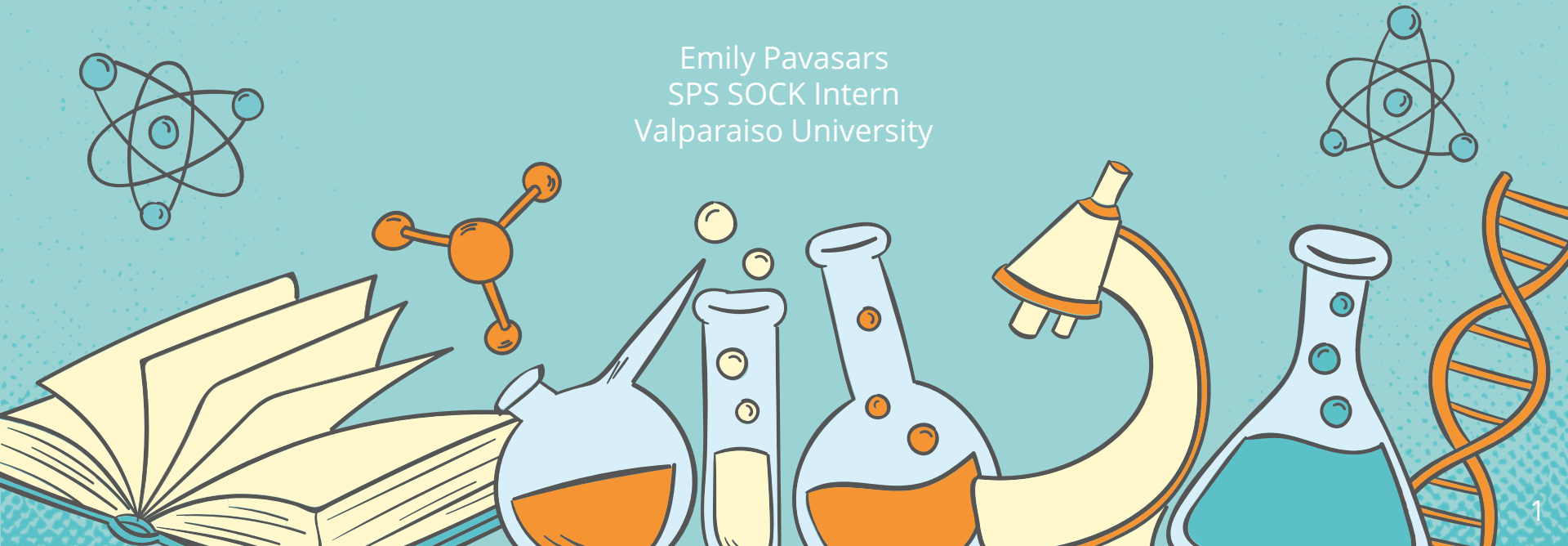


A SUMMER OF OUTREACH

Emily Pavasars
SPS SOCK Intern
Valparaiso University



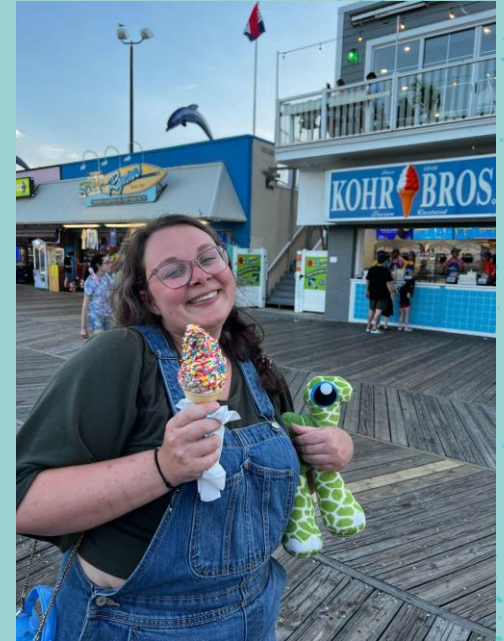
The Team



Brad Conrad
SPS and ΣΠΣ Director



Emily Pavasars
SPS SOCK Intern



Mikayla Cleaver
SPS Program
Coordinator



what I worked on...



#1: ASTRONOMY ON THE MALL

Largest
Astronomy
Outreach Event
in the World!

#2: PHYSICS JEOPARDY

Provided a fun
tool for SPS
chapters to host
an event for their
members!

#3: DEMO LIBRARY

Added more
outreach demos
for SPS chapters
to utilize in their
own
communities!

#4: S.O.C.K.

Provided 100
schools with a full
table set up for
outreach events
surrounding the
Eclipses!

#1: Astronomy on the Mall

Biggest Astronomy Outreach
Event in the World

66 Institutions attended

Taught science to 100,000
people

Outreach focused on K-8 kids
and families



#1: Astronomy on the Mall



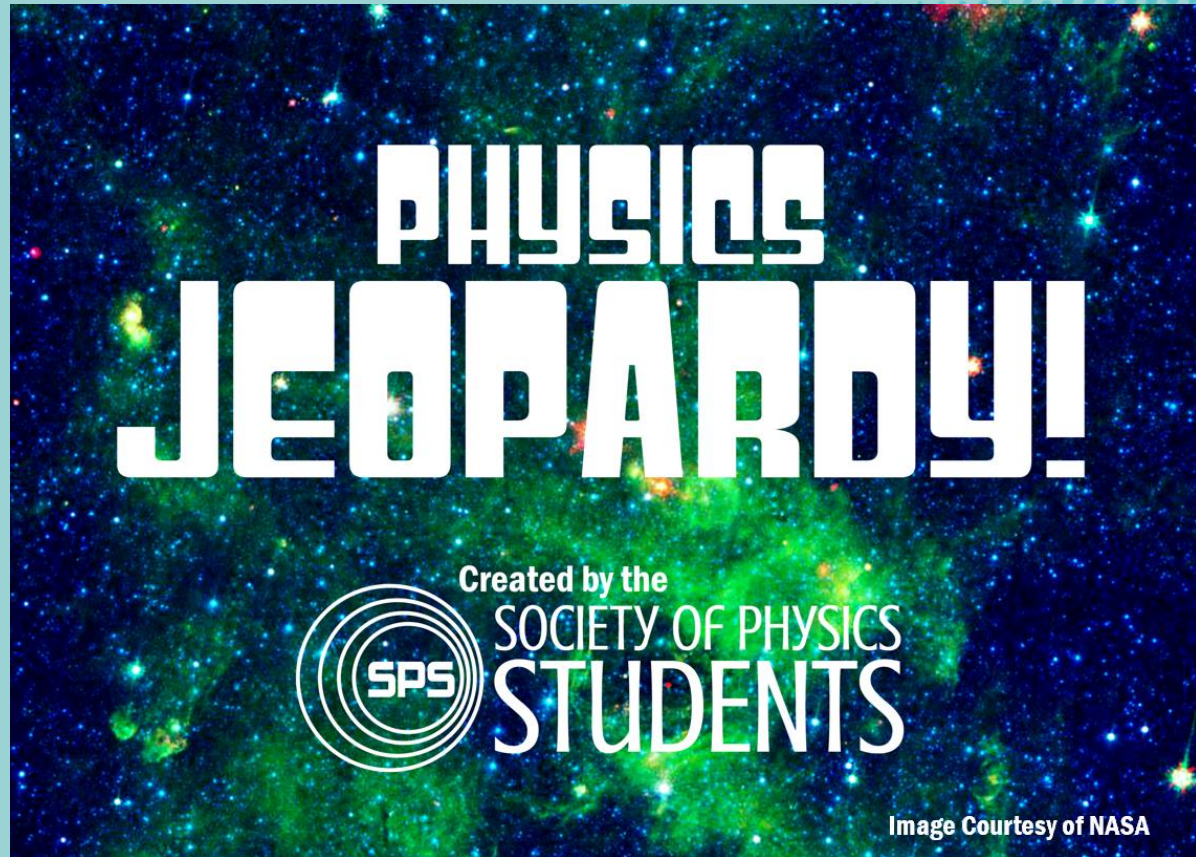
Demos

- ★ Fabric of the Universe
- ★ Dobby Telescopes
- ★ Trivia
- ★ Boom Whackers
- ★ Diffraction/Eclipse Glasses
- ★ What is the Universe Made Of?
- ★ Explaining Eclipses

#2: Physics Jeopardy

Free to tool for SPS
Chapters to use to host fun
events for their members!

Theme:
AIP Member Organizations!



The Society of Rheology

OPTICA



#2: Physics Jeopardy

AMS	APS	AVS	Optica	Rheology	MISC
<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>
<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>
<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>
<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>
FINAL JEOPARDY					



#2: Physics Jeopardy

APS
300

BACK

One of Maxwell's Laws
doesn't have a name,
what is it?

ANSWER ←



#2: Physics Jeopardy

APS
300

$$\nabla \cdot B = 0$$

BACK



#3: Demo Library



78% of chapters do outreach within their communities

SPS provides a library of cheap, accessible demonstrations with full writeups and videos






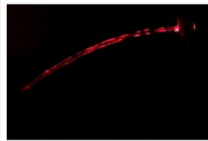


Add 3 more full demonstrations to the library!

Filter by subject

All Optics Astronomy Electricity & Magnetism
General Physics Mechanics Acoustics

Filter by Time

All 5 - 10 min 10 - 20 min 20 - 30 min 30+ min

 <p>Pinhole Projector</p>	 <p>Fabric of the Universe</p>	 <p>Hair Diffraction</p>	 <p>Composition of the Universe</p>
 <p>Eclipses: Earth-Moon-Sun Model</p>	 <p>Light Fountain</p>	 <p>Density Column</p>	 <p>Reflection & Refraction</p>

#3: Demo Library



#4: S.O.C.K.



Science Outreach Catalyst Kit!

Theme: Eclipses

Full table set up for an outreach event

Created 100 kits!

Eclipse Dates:
October 14, 2023
April 8, 2024



#4: S.O.C.K.



Included:

3 Awesome Demos:

1. Soda Straw Rocket
 - a. Straws and Rocket Printouts

1. Planet Deformation
 - a. Construction Paper and Dowel Rod

1. Explaining Eclipses/Exoplanets
 - a. 3 balls

#4: S.O.C.K.



Included:
Solar Filters

Solar Eclipse SPS Cow Stickers

Table Cards

Bubbles!

Thumbdrives

- ★ Copies of all write ups, videos, and table cards
- ★ Eclipse Safety Information
- ★ Additional Eclipse Articles

Honorable Mention!



SPS SUMMER INTERNS 2023



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THANK YOU!

Emily Pavasars
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Mathematics and Education

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