Spreading Science to the next Generation Through an Assortment of Science Demonstrations

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Mentored by Brad Conrad
Why Outreach?
SPS and Outreach

Demos + SOCK + JEOPARDY!

https://tinyurl.com/y33v5nae
https://pridesocks.com/ruby/
SPS and Outreach

- 3-5 demonstrations
- 20-25 chapters served
- $80 per box

- 1+ demonstration
- 100 chapters served
- $20 per box

- 20 Demonstrations
- All 820+ Chapters served
- $5-$20 per demo

Slide adapted from Robertson, J. Science Outreach: Skill-Builder for Undergraduates. 2017
Demonstrations

Astronomy
- Eclipse model
- Composition of the Universe
- Fabric of the Universe I & II
- Pinhole Projector
- Gravitational Waves in Jello
- Cakeraters
- Pulsar

Acoustics
- Straw Oboe
- Tuning Fork Workshop
- Chladni Plates Violin Bow
- Chladni Plate Speaker
- Rubens’ Tube
- Rijke Tube

Optics
- Variable Index of Refraction
- Polarization of Light
- The Speed of Light
- Reflection & Refraction
- Light Fountain
- Hair Diffraction

General Physics
- Borate Glass
- Liquid Nitrogen Ice Cream
- Vortex Cannon
- Slimy Spaghetti and Meatballs
- Pendulum Waves

Mechanics
- Density Column
- Egg Drop
- Egg Crusher

Electricity & Magnetism
- Ferrofluids
- Cell Phone Charger
- Homopolar Motor
- Eddy Currents
- Simple Motor
- Audio Amplifier
Demonstrations

Instruction Document

Video

Categorized

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Science Outreach Catalyst Kit (SOCK)
ASTRONOMY

GRAVITATIONAL WAVES
IN JELLO

SPS OUTREACH

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Thank You!

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SPS 2019 Interns/Friends
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Questions?

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