



Cleveland State University Funding of Physics Fridays Outreach

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ABSTRACT

The CSU Society of Physics students uses grant money to fund a Friday outreach program to the nearby Campus International Elementary school. Each outreach event consists of interactive demos, lessons, and interaction between K-8 students and SPS volunteers. The program allocates money granted by the Marsh W. White award to fund the materials necessary for each activity. The program introduces young students to physics and generates an early interest in physics education and study.

Introduction

Physics Fridays fosters an interest in physics and STEM education at an early age. Students engage with hands-on demos with the guidance of

Water and Its Properties

The Super-saturation of water, buoyancy of water and

CSU Visitation Day

On visitation day, the students will be given insight into the daily work of physics students and faculty at CSU, allowing them to gauge interest in a subject they are otherwise not exposed to until high school. Students are provided pizza and the day is ended with a batch of ice cream made in front of the students using liquid nitrogen. This opportunity establishes a relationship with Cleveland State University at a young age, and having science interest fostered early encourages the children to pursue it further later in life.

The Newtonian fluids, adhesives, gallium, plaster, liquid nitrogen, and thick fluids such as honey. This batch of lessons informs students of a variety of fluids they interact with little. The materials can be expensive, messy, dangerous, or all of the above, so students will have little opportunity to explore these materials again on their own.

Going Forward

The SPS chapter at CSU has held outreach programs at Campus international for years, and it

interact with every day, as well as fluids they do not get a chance to experiment with regularly. The Marsh White funding was used to acquire various fluids and materials that help the students interact with those fluids. Experiments are designed to encourage students to experiment at home.