

CSAAPT Fall 2022 Semi-Virtual Meeting



Chesapeake Section of the
American Association of Physics Teachers
Fall 2022 Semi-Virtual Meeting
October 22, 2022 in Falls Church, VA

Contribution ID: 3

Type: **talk (15-minute)**

Free Physics Demonstration Videos From Blue Ridge PBS

Saturday, October 22, 2022 9:00 AM (15 minutes)

Blue Ridge PBS, in partnership with Virtual Virginia and the Demonstration Lab at Virginia Tech, has produced a series of high school Physics demonstrations recorded on campus, hosted by Ph.D.candidate Alison Gaylord. These short, SOL correlated episodes are available at no cost and are also embedded in the Virtual Virginia Physics courses. The focus of the discussion will be how to use these in face to face, online, and blended courses.

Topics include:

- Acceleration Due to Gravity
- Principles of Projectile Motion
- Conservation of Energy
- Newtons Second Law - Balanced Forces
- Sound Waves/Rubens Tube
- Newton's Second Law: Elevator Demonstration
- Circular Motion
- Projectile Motion
- Harmonic Sound Waves
- Modeling Motion with Force Vectors
- Electrostatic Forces and Fields
- Circular Motion and Inertia
- Impulse Momentum
- Conservation of Momentum
- Conservation of Energy

Primary authors: Mrs WARNICK, Sarah (Virtual Virginia); LANDON, Thomas (Blue Ridge PBS)

Presenters: Mrs WARNICK, Sarah (Virtual Virginia); LANDON, Thomas (Blue Ridge PBS)

Session Classification: Morning Session (Chair: Jason Sterlace, Zoom Monitor: Juliana Butler)