

Fall 2022 Meeting of the Southeast PA Section of the American Association of Physics Teachers

Hosted by the Department of Physics at Villanova University

Friday evening, October 14, 2022

Joint Meeting with the Delaware Valley Amateur Astronomers (DVAA)

Radnor Township Building, 301 Iven Ave., Wayne, PA 19087

Radnorshire Room; use 2nd floor entrance to building

This portion of the meeting will be livestreamed via YouTube.

- 7:00-7:30 **Arrival, Socializing Time**
- 7:30-7:40 **Welcoming Remarks**
DVAA & SEPS Staff
- 7:40-8:00 **DVAA Committee Presentations**
- 8:00-9:30 **Invited Speaker**

Dr. Joey Neilsen, Villanova University

“The Shadow of a Sleeping Giant”

Supermassive black holes light up the distant and local universe, but the Milky Way galaxy is remarkably quiet: our supermassive black hole, Sagittarius A (Sgr A*), is orders of magnitude fainter than its extragalactic counterparts. I will discuss efforts to study this sleeping giant (including work by a recent Villanova grad), culminating in the recent discovery of the shadow of the black hole by the Event Horizon Telescope Collaboration.*

Saturday morning, October 15, 2022

Villanova University, Department of Physics, Mendel Hall

- 8:00 **Registration Table opens** – Mendel 247
- 8:30-9:15 **Registration/Breakfast** – Mendel 247

Continental breakfast catered by Villanova University

Neighboring rooms will also be available for social distancing.

1:30 – 3:30 **Saturday afternoon workshop** – Mendel 257

“Challenging Labs for High School”

Led by Barry Feierman, Westtown School (ret.)

1:30 – 3:30 **Contributed Papers and Demos** – Mendel 256

1:30 *Building Intuition before the Lab Experiment: PhETs as a Part of Pre-Lab Exercises*
Mark Scafonas, Gwynedd Mercy University

1:45 *Electrifying the Circuits Unit*
Ellen Kruger and Alissa Sperling, Springside Chestnut Hill Academy

2:00 *Batteries, Bulbs, and Bias*
Doug Kurtze, Saint Joseph's University

2:15 *The Impact of the Atomic Bomb - a course overview*
Kelly Kriebel, Moravian University

2:30 *Forces involved in Rolling without Slipping*
Jeffrey Wetherhold, Muhlenberg College

2:45 *Simple Online Oscilloscope*
Bob Schwartz

3:00 *Unmanned Aircraft*
Jay Bagley

3:15 *Error with Digital Scales, and Instantaneous Speed Compared to Average Speed*
Bruce Williamson, Achievement House Cyber Charter School

Thank you for attending the
2022 AAPT SEPS Fall Meeting!

Safe travels home, and
we hope to
see you for our next
meeting!



AAPT Southeast
Pennsylvania Section
(SEPS) Fall 2022 Meeting

Friday, October 14, 2022
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Villanova University



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