

## Fall 2024 Talks

[A Pilot Engineering Intro Course for the Early Engagement of First-Year Engineering Physics Majors](#) by Qi Lu (Delaware State University)

[A simple approach to determining classical planetary orbits](#) by James Freericks (Georgetown University)

[Physics Identity of Undergraduate Women](#) by Laura Akesson (George Mason University)

[Relativistic Two-Body Equations](#) by Walter Jaronski (Radford University)

[Coefficient of performance \(COP\) of a Stirling refrigerator](#) by Carl Mungan (U.S. Naval Academy)

[Creating Successful Professional Development Programs](#) by Kris Lui (AAPT – OPTYCs)

[Cultural Backgrounds and Classroom Dynamics: Understanding the Impact of cultural background on International Graduate Teaching Assistants' Adjustment to U.S. Graduate Teaching](#) by Nishchal Thapa Magar (George Mason University)

[Outcomes of MSU's "Quantum Literacy Teachers Training" Workshop \(QLT2\)](#) by Dr Lilian Clairmont (Appomattox Regional Governor's School)

[Experimental high energy physics research: Knowledge transfer and career readiness](#) by Dr Muge Karagoz

[Projectile Motion: More Geometry, More Physics](#) by Jan Fiala

[Quantum Concepts for High School and College](#) by Jessica Rosenberg (George Mason University)

[Teaching K-12 Particle Physics as an Advocate: A Personal Journey into Radio Wave Science and Technology Research](#) by Ronald Freeman (Space Operations and Support Technical Committee AIAA)

[Science Education Opportunities at Jefferson Lab \(AM\)](#) by Jalyn Dio and Lisa Surles-Law (Jefferson Lab, Science Education Administrators)

[Baryon Model using Quark and Gluon spheres](#) by David Parham (North Carolina State University)

[Demonstration of Light Emitting Diodes and Alternating Current](#) by Jonathan Bennett (NCSSM)

[Differentiating instruction while implementing the ISLE methodology: One approach](#) by Andres Akamine (Boyd J. Michael, III Technical High)

[Outcome of A Summer High School Quantum Program at MSU: iQuEST](#) by Ms Maajida Murdock (Randallstown High School and Morgan State University)

[PhysChats: An Ongoing Attempt to Normalize Physics Learning](#) by Desmond Villabla (University of Mary Washington)

[Physics and Dance Teaching Techniques](#) by Arthur Baum (Myers Park High School)

[REU... but for TYC faculty?](#) by Brittney VornDick (Durham Technical Community College)

[Using the Sound from a Tuning Fork to Demonstrate Heisenberg Uncertainty Principle](#) by Phuc Tran (Brightpoint Community College)

[Deeper Understanding Through Problem Posing](#) by Michael Peterson (Triangle Math and Science Academy)

[21st century physics in the classroom](#) by Ray Hodges (CESJDS)

[Demonstration of Systematic Errors in the Centripetal Force Experiment](#) by Dr Samantha Wickramarachchi (Department of Physics, Virginia Commonwealth University)

[Improving an Asynchronous Online Physics Course](#) by Tim Jones (Craven Community College)

[Learning Gains in using Kahoot! Games with Student-generated questions in Introductory Physics Courses](#) by Sithy Maharooof (Stevenson University)

[QuarkNet: Ready-to-go Particle Physics for High School](#) by Rebecca Jaronski (MCPS, VT QuarkNet)

[Revamping Introductory Physics for Life Sciences](#) by Dr Jency Sundararajan (University of Virginia)

[Active Learning Tools in a Physics of Sports Course](#) by Richard Lindgren (University of Virginia), Dr William A. Tobias (University of Virginia)

[Integrating Evolutionary Biology into Physics Classroom: Scaling, Dimension, Form and Function](#) by Kausik Das (University of Maryland Eastern Shore)