



# The 11th Annual Exhibition of Undergraduate Research and Creative Activities - EXPO 2024

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## GUEST SPEAKER

Geraldine Cochran, Ph.D.

**Associate Professor- Department of Physics  
The Ohio State University**

**April 19, 2024 - 1:00 to 1:45 p.m.**  
Live Oak Ballroom - Setzer Center

### SHORT BIOGRAPHY:

Dr. Geraldine L. Cochran is an Associate Professor in the Department of Physics at The Ohio State University specializing in equity-oriented physics education research. Cochran is passionate about teaching physics and supporting efforts to broaden participation in STEM fields by identifying and mitigating the negative impact of inequities in physics and modifying practices and policies to eliminate inequities in physics. Cochran is a member of the Inclusive Graduate Education Network, a fellow of the American Physical Society, and a fellow of the American Association of Physics Teachers. Cochran earned her Ph.D. in curriculum and instruction with a cognate in physics and her Ed.S. in science education with a specialization in teacher preparation from Florida International University in Miami, FL and her M.A.T. with a specialization in secondary school physics, her B.S. degree in physics and her B.S. degree in mathematics from Chicago State University in Chicago, IL.

### LECTURE: Improving Experiences in Physics Education Through Equity-oriented Physics Education Research

The field of physics education research (PER) is relatively young, about 50 years old. Within the last two decades the types of research conducted under the PER umbrella, the methodologies and conceptual frameworks used in PER, and the interdisciplinary nature of PER has expanded. This expansion has allowed for an increase in PER that focuses on issues of equity/inequity in physics education or more broadly spaces in which physics learning takes place. This talk provides an overview of PER aimed at addressing inequities in physics education and discusses the ways in which prior work in the field has impacted policies and practices in physics.



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