

Contact Information

Dr. William V. Slaton
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Experience

Positions Held

5/2019 - Present : Eng. Physics Coord.
Univ. of Central Arkansas
5/2016 - Present : Full Professor
Univ. of Central Arkansas
5/2010 - 5/2016 : Associate Professor
Univ. of Central Arkansas
8/2004 - 5/2010 : Assistant Professor
Univ. of Central Arkansas
5/2004 - 8/2004 : Visiting Scientist
Tech. Univ. at Eindhoven, NL
8/2003 - 5/2004 : Visiting Assistant Prof.
Univ. of Mississippi
10/2001 - 8/2003 : Postdoc. Research Sci.
Tech. Univ. at Eindhoven, NL

Education

August 2001 : Ph.D. Physics
Univ. of Mississippi, Oxford MS
May 1996 : B.S. Physics
Univ. of Central Arkansas, Conway AR

Skills

General

Basic machine shop & wood working
Electronics & microcontrollers
Python, Fortran, Mathematica
L^AT_EX & html

Research

Acoustics
General Physics

Teaching

Acoustics
Algebra-based intro physics
Calculus-based intro physics
Classical Mechanics
Electricity & Magnetism
Electronics & Microcontrollers
Physical Science
Senior Design & Capstone
Thermodynamics & Stat. Mech.
Mentoring undergraduate research

Peer Reviewed Work (*“*” denotes undergraduate co-author*)

I have a total of 19 publications (5 with undergraduate co-authors) and 24 presentations (13 with undergraduate co-authors). Select recent presentations and publications listed below.

Presentations

W.V. Slaton et. al., “Balloon Borne Solar Radiation Measurements During 2017 North American Eclipse,” 2018 American Association of Physics Teachers Winter Meeting. San Diego, CA Jan 6-9, 2018.

Elaine Jeffery* and **W.V. Slaton**, “Cooperative Student-Built Multi-Payload Balloon-Satellite Eclipse Measurement (Poster),” 2018 American Association of Physics Teachers Winter Meeting. San Diego, CA Jan 6-9, 2018.

W.V. Slaton, “Aeroacoustic response of coaxial Helmholtz resonators in a low-speed wind tunnel,” J. Acoust. Soc. Am. **136**, 2288 (2014).

W.V. Slaton, “Using Twitter for teaching,” J. Acoust. Soc. Am. **136**, 2160 (2014).

Gerard Munyazikwiye* and **W.V. Slaton**, “Determining elastic moduli of concrete using resonance (Poster),” J. Acoust. Soc. Am. **136**, 2127 (2014).

John Ferrier* and **W.V. Slaton**, “Three-dimensional printed acoustic mufflers and aeroacoustic resonators (Poster),” J. Acoust. Soc. Am. **136**, 2127 (2014).

Scotty McKay* and **W.V. Slaton**, “Stick bombs: A study of the speed at which a woven stick construction self-destructs (Poster),” J. Acoust. Soc. Am. **136**, 2127 (2014).

Publications

W.V. Slaton and E. Jeffery*, “Balloon-borne Solar Radiation Measurements during the 2017 North American Eclipse,” The Physics Teacher **59**, 328-332 (2021).

W.V. Slaton and A. Nishikawa*, “Aeroacoustic response of coaxial wall-mounted Helmholtz resonators in a low-speed wind tunnel,” J. Acoust. Soc. Am. **137** (1), 253-260 (2015).

A. Hicks* and **W.V. Slaton**, “Determining Discharge Coefficient for a Draining Container,” The Physics Teacher **52**, 43-47 (2014).

R.W. Dunn, **W. V. Slaton**, and L. M. Kendall, “Detection of low frequency hurricane emissions using a ring laser interferometer”, J. Appl. Phys. **122**, 073110 (2012).

T. Odekirk* and **W.V. Slaton**, “Pulse Speed on a Plucked Wire,” The Physics Teacher **50**, 244-245 (2012).

W.V. Slaton, “An Open-Air Infrasonic Thermoacoustic Engine,” J. Applied Acoustics **71**, 236-240 (2010).

K. Penn* and **W.V. Slaton**, “Measuring Model Rocket Engine Thrust Curves,” The Physics Teacher **48**, 591-593 (2010).