

William V. Slaton

Curriculum Vitae

Education

- 2001 **Ph.D. in Physics**, *University of Mississippi*, Oxford, MS
1996 **B.S. in Physics**, *University of Central Arkansas*, Conway, AR

Professional Appointments

- 2026–Present **Assistant Dean of Research and Innovation**, *University of Central Arkansas*
2019–Present **Engineering Physics Coordinator**, *University of Central Arkansas*
2016–Present **Professor of Physics and Engineering**, *University of Central Arkansas*
2010–2016 **Associate Professor**, *University of Central Arkansas*
2004–2010 **Assistant Professor**, *University of Central Arkansas*
2004 **Visiting Scientist**, *Technical University of Eindhoven*
2003–2004 **Visiting Assistant Professor**, *University of Mississippi*
2001–2003 **Postdoctoral Research Scientist**, *Technical University of Eindhoven*

Publications

* - represents undergraduate co-author. Only publications and presentations since 2015 are listed.

Refereed Journal Articles

- 2022 John L. Snider, Cristiane Pilon, Wei Hu, Hai-Miao Wang, Viktor Tishchenko, William Slaton, Daryl Chastain, Ved Parkash, "Net photosynthesis acclimates to low growth temperature in cotton seedlings by shifting temperature thresholds for photosynthetic component processes and respiration," *Environmental and Experimental Botany*, 104816, 2022. DOI: 10.1016/j.envexpbot.2022.104816.
- 2018 Wei Hu, John L. Snider, Daryl R. Chastain, William Slaton, Viktor Tishchenko, "Sub-optimal emergence temperature alters thermotolerance of thylakoid component processes in cotton seedlings," *Environmental and Experimental Botany*, 2018. DOI: 10.1016/j.envexpbot.2018.07.020.
- 2015 W. V. Slaton and A. Nishikawa*, "Aeroacoustic response of coaxial wall-mounted Helmholtz resonators in a low-speed wind tunnel," *Journal of the Acoustical Society of America* **137**(1), 253–260 (2015). DOI: 10.1121/1.4904521.

Refereed Conference Proceedings

- 2024 W. Slaton, L. Zhang, & J. Butler, "An AI Robotics & Ethics Summer Camp for High School Students," *2024 ASEE Midwest Section Conference Proceedings* (2024). DOI: 10.18260/1-2-10.150.530-49345.
- 2025 W. Slaton, L. Zhang, & J. Butler, "Integrating Ethics and Engineering in Practice: Outcomes from the 2025 AI, Robotics, and Ethics Summer Camp," *2025 ASEE Midwest Section Conference Proceedings* (2025). DOI: 10.18260/1-2-170.1153-57841.

Editor Reviewed

- 2025 Slaton, W. "Understanding Cromer's Stable Solutions Using the Euler Approximation." Published in the PICUP Collection (Faculty Commons), October 2025. Editor-reviewed.

Other Publications (Education and Outreach)

- 2025 G. M. Seymour and W. V. Slaton, "STEAM in the Path of Totality," *Bulletin of the American Astronomical Society* (2025). DOI: 10.3847/25c2cfb6fb6f2e5.
- 2021 W. V. Slaton and E. Jeffery*, "Balloon-borne Solar Radiation Measurements during the 2017 North American Eclipse," *The Physics Teacher* **59**, 328–332 (2021). DOI: 10.1119/10.0004880.

Manuscripts Under Review

- 2026 David E. Dussourd, Blayne Terrazas, William V. Slaton, "Wind triggers activity in caterpillars and other insects," Under review.

Presentations

- 2025 W. Slaton, "Richard Raspet's legacy in porous media and thermoacoustics," J. Acoust. Soc. Am. 157, A202 (2025). DOI: 10.1121/10.0037892.
- 2021 John Snider, Cristiane Pilon, Haimiao Wang, Viktor Tishchenko, Wei Hu, William Slaton, Daryl Chastain, "Photosynthetic Cold Acclimation in Cotton Seedlings," 2021 Beltwide Cotton Conferences (Virtual). <https://www.cotton.org/beltwide/proceedings/2005-2022/data/conferences/2021/paper/20826.pdf>
- 2018 William Slaton, Russell Jeffery*, Tillman Kennon, Peggy Norris, and Bill McLean, "Balloon Borne Solar Radiation Measurements During 2017 North American Eclipse," Presented at the 2018 Winter Meeting, San Diego, CA (WM18).
- 2016 Snider, J., Gassett, J., Chastain, D., Dodds, D., Porter, W. M., Golden, B. R., Dunn, D., & Slaton, W., "Assessment of PSII Heat Tolerance for Six Commercially-Available Cotton Cultivars Across a Range of Production Environments." ASA, CSSA and SSSA International Annual Meetings (2016), Phoenix, AZ. <https://scisoc.confex.com/scisoc/2016am/meetingapp.cgi/Paper/99799>

Poster Presentations

- 2018 Russell Jeffery* and William Slaton. *Cooperative Student-Built Multi-Payload Balloon-Satellite Eclipse Measurement*. Presented at the 2018 Winter Meeting, San Diego, CA (WM18).
- 2018 John Snider, Wei Hu, Haimiao Wang, Mario Scolari, Viktor Tishchenko, Daryl Chastain, & William Slaton, *Processes Contributing to Photosynthetic Cold Acclimation in Cotton Seedlings (#1203)*. Presented at the 2016 ASA, CSSA, and CSA International Annual Meeting, Baltimore, MD.