

Jason Stewart, PhD, PE

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Education

Doctor of Philosophy in Engineering, Concentration in Civil Engineering **Dec. 2024**

Mississippi State University

Dissertation title: *“The plastics crisis: responsible recycling in civil engineering and infrastructure”*

Advisor: Dr. Isaac L. Howard

Master of Science in Agricultural Engineering **1998**

Texas A&M University

Thesis title: *“Cotton height measurement and variable rate chemical control”*

Advisor: Dr. Stephen W. Searcy

Bachelor of Science in Engineering, Concentration in Agricultural Engineering **1996**

Arkansas State University

Magna Cum Laude

University Honors, Thesis title: *“Agri-aviation chemical loading station”*

Advisor: Dr. Albert L. Mink

Certifications

Professional Engineer **2003-present**

AR State Board of Licensure for Professional Engineers and Professional Surveyors

Certified Crop Adviser **2005-present**

American Society of Agronomy

Agricultural Consultant **2005-present**

Arkansas Department of Agriculture

Leadership Experience

Director of Accreditation **2020-present**

A-State College of Engineering and Computer Science

Oversight of accreditation efforts for all programs in the College with external accrediting agencies

Director of Civil Engineering **2014-2026**

A-State College of Engineering and Computer Science

General program oversight and curriculum development

- Serve as lead for self-study development for ABET accreditation
- Maintain CE Advisory Council with regular meetings
- Mentor program faculty
- Provide input for capstone project selection to ENGR 4463 instructor of record
- Serve as advocate for program needs to the Dean and Associate Dean
- Oversee course substitutions and verify graduation requirements for BSCE students
- Support outreach efforts of the program and College

Faculty Advisor, American Society of Civil Engineers (ASCE) 2014-present

- Oversight of all chapter activities
- Promotion of regional symposium events (held annually)
- Student Steel Bridge Competition team advisor
- Concrete Canoe Competition team advisor
- Advisor for other competition teams and participants (surveying, sustainable solutions, professional paper, construction institute, various local events)
- Service project (Adopt-A-Highway) participation, 4 litter cleanup events annually
- Host of Mid-South Student Symposium in 2022 (14 university chapters)

Faculty Advisor, A-State Shooting Sports Club 2026-present

Teaching Experience

Assistant Professor 2020-present

- A-State College of Engineering and Computer Science
- Multiple capstone design groups supervised

Instructor of Engineering 2000-2020

- A-State College of Engineering and Computer Science
- Multiple capstone design groups supervised

Temporary Instructor of Engineering 1998-2000

- A-State College of Engineering and Computer Science

Courses taught:

- AGEN 1113 Engineering Analysis Techniques
- AGEN 3153 Grain Processing
- CE 2202 Civil Engineering Presentations
- CE 2223 Plane Surveying
- CE 3213 Structural Analysis I
- CE 3223 Structural Analysis II
- CE 4251 Soil Mechanics Laboratory
- CE 4253 Soil Mechanics
- ENGR 1402 Concepts of Engineering
- ENGR 2403 Statics
- ENGR 2411 Mechanics of Materials Laboratory

ENGR 2413 Mechanics of Materials
 ENGR 3423 Dynamics
 ENGR 3433 Engineering Economics
 ENGR 3473 Fluid Mechanics
 ENGR 4401 Senior Seminar
 ENGR 4463 Senior Design I
 ENGR 4482 Senior Design II
 ME 4543 Machine Design
 SUR 4023 Advanced Surveying
 SUR 4033 Surveying Practicum

University Service

University level

Undergraduate Curriculum Committee	current
Program-Level Assessment Committee	current
Wilson Chair of Agriculture search committee	2023
Associate Vice Chancellor for Faculty Relations search committee	2022
College of Engineering and Computer Science Dean search committee	2018
Undergraduate Enrollment and Academic Policy Committee	2018
Academic Retention Council	2016
First-Year Experience Advisory Board	2002-2012

College level

Curriculum Committee (chair)	current
Am. Soc. of Civil Engineers (ASCE) Student Chapter Faculty Advisor	current
Various ABET Outcome Committees (assessment)	current
Engineering Advisory Council	2018
Retention Committee	2016
Engineering Seminar Series	2015
Engineering Standards Committee	2002
Various faculty and staff search committees	varies

Grant award

Research & Creativity Travel Grant (\$5,000) for ASCE student travel (20 students attended) support to the Mid-South Student Symposium, Chattanooga, TN.
 Awarded by A-State Research & Technology Transfer. March 2023.

Research Interests

Responsible plastics recycling in civil engineering and infrastructure
Plastics recycling in military and public railroad infrastructure
Infrastructure resiliency

Publications

Journals (peer-reviewed)

Stewart, J.H., Cisko, A., Beasley, J., & Howard, I. L. 2023. Plastic Crisis: Responsible Recycling Within Military Railroad Infrastructure. *Transportation Research Record*, 2677(8), 602–616. <https://doi.org/10.1177/03611981231157389>.

Vories, E.D., Greene, J.K., Teague, T.G., Stewart, J.H., Phipps, B.J., Pringle, H.C., Clawson, E.L., Hogan, R.J., O'Leary, P.F. and Griffin, T.W. 2011. Determining the optimum timing for the final furrow irrigation on Mid-South cotton. *Applied Engineering in Agriculture*, 27(5), pp.737-745.

Conference publication/presentation (peer-reviewed)

Stewart, J.H., Cisko, A., Wacinski, C., Howard, I.L. 2026. “Appraising the Potential to Responsibly Recycle Plastic within Pavements, Pipe, and Rail Infrastructure,” *Proc. of Geo-Congress 2026 (GSP 381)*, Mar 09-12, Salt Lake City, UT, pp.134-144.

Technical Report

Stewart, J.H., Cisko, A.R., Beasley, J., GangaRao, H.V.S., Howard, I.L. 2026. *Railroad Ties Containing Recycled Wood or Recycled Plastic*. Report CMRC-26-01, Construction and Materials Regional Consortium, Mississippi State University, pp. 42.

Arkansas State University presentations

Bullen, S., Pearson, F., Prunty, S., Santiago-Ramos, C., Elsayed, A., and Stewart, J.H. 2026. ASCE Sustainable Solutions. Create@State poster event. Second place in Creative Work category.

Orr, A.J., Smith, L., Wiley, G., and Stewart, J.H. 2026. National Student Steel Bridge Competition. Create@State poster event.

Stewart, J.H. 2025. 2024 ABET accreditation visit summary – lessons learned. Learn@State mini conference.

McLaughlin, H., Perkins, E., Lowery, C., Raja, M.F., and Stewart, J.H. 2025. National Student Steel Bridge Competition. Create@State poster event. First place in Creative Work category.

Widmer, N., Williams, B., Catton, L., Arnold, C., Greene, K., Keen, L., and Stewart, J.H. 2025. ASCE Sustainable Solutions. Create@State poster event. Third place in Creative Work category.

Widmer, N., Williams, B., Catton, L., Arnold, C., Greene, K., Keen, L., and Stewart, J.H. 2025. ASCE Concrete Canoe Competition. Create@State poster event.

Master's Thesis

Stewart, J.H. 1998. Cotton height measurement and variable rate chemical control. Texas A&M University, College Station, TX.

Doctoral Dissertation

Stewart, J.H. 2024. *The plastics crisis: responsible recycling in civil engineering and infrastructure*. Doctoral dissertation, Mississippi State University.

Draft in progress

Stewart, J.H., Cisco, A., Beasley, J., and Howard, I.L. 2026 planned. Effects of Load and Temperature on Deformation of Recycled Plastic Railroad Ties Under Full-Scale Conditions. Peer-reviewed journal to be determined.

Advising

Primary advisor for Andrew Orr on his Honors senior thesis at Arkansas State University (2026). Designing a Steel Bridge: A Structural Overview.

Primary advisor for Caiden Sisson on his Honors senior thesis at Arkansas State University (2026). Development and Optimization of a Concrete Mix Design for Concrete Canoe Application.

Non-Academic Experience

Stewart AG Services, Inc. (Founder & Owner)	1998-present
Crop consulting services to agricultural producers	
Nutrient, irrigation, pest, and general crop management services	
Insect scouting	
Soil sampling	

Professional Service

Arkansas section of ASABE	1998-present
President	2008, 2015
Treasurer	2011-2014
Professional development chair	2005-2007
Arkansas section of ASCE Executive Council	2015-present
ARDOT Transportation Research Committee	2019-present
Arkansas Soil & Water Education Conference planning committee	2004-2013

Community Service

Buffalo Island Central School District Board of Directors **2011-2026**

Alderman, City of Monette, AR **2008-2015**

Monette Youth Association **2008-2015**

Professional Memberships

American Society of Civil Engineers (ASCE)

American Society of Agricultural and Biological Engineers (ASABE)