



Enclosure Noise Control

**Short Course
Vibro-Acoustics Consortium
November 4, 2025**

**John Deere Research and Development Center – Silvis
1800 158th St. N.
East Moline, IL 61244**

Instructors: David Herrin (University of Kentucky) and David Copley (Caterpillar)

8:30 a.m. Coffee and Pastries

9:00 a.m. Morning Presentations

- Introduction
- Sound Paths
- Enclosure Performance Metrics
- Fundamentals and Terminology
- Resonance Rules
- Panel Transmission Loss
- Sound Absorption

12:00 p.m. Lunch

1:00 p.m. Afternoon Presentations

- Acoustic Modes
- Models for Partial Enclosures
- Interior Sound Field
- Enclosure Performance
- Measurement
- Air Flow Considerations
- Numerical Simulation

4:00 p.m. Adjourn