



Program and Agenda

Fall Meeting of the
Vibro-Acoustics Consortium
November 5, 2025

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

8:30 a.m. **Coffee and Pastries**

9:00 a.m. **Morning Presentations**

- News and Notes
- **Tutorial** Scale Models in Acoustics
- Blocked Force Determination on a Hydraulic Pump
- Experimental Characterization of a Steel Spring Isolator under Load
- Measurement and Simulation of Engine Cover Sound Radiation
- Pickleball Noise Measurement and Noise Reduction
- Measurement Point Selection for Inverse Pellicular Modes Analysis
- End Correction Rules for a Double Tuned Expansion Chamber
- Source Reconstruction inside a Large Duct
- Perforated Plate Transmission and Insertion Loss without and with Flow

12:00 p.m. **Lunch**

1:00 p.m. **Afternoon Presentations**

- Coherence and the Particle Velocity Probe
- Reciprocity and the Low Frequency Volume Velocity Source
- Optimizing Liquid Spray Damping Thickness
- Simulation of Partial Enclosure Insertion Loss with Baffle Silencers
- Transmission Loss and Sound Absorption of 3D Printed Sound Absorbers
- Measurement of Noise from a Residential Air Conditioner
- Finite Element Simulation of Transmission Loss through a Blower
- Source Characterization of a Ducted Source using Acoustic Free Velocity
- Coupled Structural Acoustic Finite Element Analysis on a Small Enclosure

4:00 p.m. **Adjourn**