



Program and Agenda

Fall Meeting of the
Vibro-Acoustics Consortium
November 14, 2024

Northern Illinois University (NIU) - Naperville Campus
1120 E Diehl Rd
Naperville, IL 60563

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

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

- News and Notes
- Notes on Sound Intensity
- **Prasad Vesikar (Siemens) Guest Presentation** Lessons Learned on Blocked Force Determination
- Experimental Characterization of a Steel Spring Mount using Virtual Point Transformation
- Continuing Work on Determination of Blocked Forces for Compact Mechanical Sources
- Guidelines for Inverse Pellicular Modes Source Reconstruction
- Determination of Insertion Loss using AVL
- Measurement of Perforated Plate Insertion Loss and Flow Noise

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

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

- Notes on Resonance
- Introduction to ANSYS Acoustics in Workbench
- Measurement of Noise from a Residential Air Conditioner
- Evaluation and Reciprocity Analysis of a Low Frequency Volume Velocity Source
- Source Characterization of a Ducted Source using Acoustic Free Velocity
- Guidelines for Inverse Panel Contribution Analysis Source Reconstruction
- Application of Folded MPP Samples in a Muffler

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