



## Program and Agenda

### Fall Meeting of the Vibro-Acoustics Consortium May 19, 2022

NIU Naperville Conference Center  
1120 E Diehl Rd  
Naperville, IL 60563

8:00 a.m. Coffee and Pastries

8:30 a.m. Morning Presentations

- News and Notes
- Flow Noise Tutorial
- Flow Noise of Perforated Concentric Pipes
- Introduction to Microflown Scan & Paint 2D
- Machine Learning Overview
- Using Machine Learning to Predict CAN-A-BEL Resonator Performance
- Reducing the Sound Levels of a Residential Pool Heat Pump
- Measurement of HVAC Duct Insertion Loss and Comparison to Simulation
- Notes on Acoustic Free Velocities
- Application of Acoustic Free Velocity Sources

12:00 p.m. Lunch

1:00 p.m. Afternoon Presentations

- Company Presentation Ebco Inc.
- Soundscapes Tutorial
- Machine Learning Applied to Reverberation Room Simulation
- Acoustic Simulation of Outlet Flow Noise
- Machine Learning for End of Line Quality Control

5 Minute Presentations

- Effect of Mass Layers on the Insertion Loss of Lined Rectangular Ducts
- Development of a Test Stand to Investigate UAV Noise
- Prediction of HVAC Duct Breakout Transmission Loss
- Overview of ESI Foam-X
- Multi-Inlet and Multi-Outlet Disk Silencers
- Determination of Muffler Insertion and Transmission Loss with Flow
- Overview of ANSYS Acoustics

4:00 p.m. Adjourn