



Program and Agenda

Fall Meeting of the Vibro-Acoustics Consortium September 7, 2021

Prince Conference Center
1800 E Beltline Ave SE
Grand Rapids, MI 49546

8:00 a.m. Coffee and Pastries

8:30 a.m. Morning Presentations

- News and Notes
- Introduction to Sound Quality Metrics
- [Pete Schaldenbrand](#) Sound Quality Demonstrations
- Anechoic Termination: Design, Measurement, and Simulation
- Measurement of Pavement Sound Absorption
- Simulation of Grommet Isolators
- Reverberation Room Simulation
- Subsonic Flow Noise: Measurement and Prediction

12:00 p.m. Lunch

1:00 p.m. Afternoon Presentations

- [Case Study](#) Source Ranking on a Refrigeration System
- Using Machine Learning for End of Line Quality Control
- [Alexis Talbot](#) Machine Learning Applied to Simulation
- Design of Double Tuned Helmholtz Resonators
- Determination of Muffler Transmission and Insertion Loss with Flow
- Using Ray Tracing to Assess Noise in a Bakery
- Summary of Work on Sound Absorptive Fabrics
- Simulation of Perforations using MSC Actran
- Prediction of Lined HVAC Duct and Elbow Attenuation
- Measurement of the Transmission Loss of Thin Panels
- 3D Geometric Scanner

4:30 p.m. Adjourn