

**Experimental Modal Measurement and Analysis Seminar with Dr. Pete Avitabile** 

Toronto, Canada • September 22-23, 2022 • Hosted by Dalimar Instruments



Modal analysis is an essential technology behind solving today's noise and vibration problems. Dr. Peter Avitabile, Professor Emeritus at University of Massachusetts Lowell, will discuss taking measurements – along with the pitfalls, difficulties, and common misconceptions related to modal testing. This seminar will focus on the practical aspects of impact and shaker measurements, the most common methods used to acquire data for experimental modal analysis.

## SEMINAR AGENDA

	Day 1:			Day 2:	
	8:15 - 9:50	Measurements Required		8:15 - 9:50	Shaker Excitation Signals for modal testing - example measurements (random, burst random, pseudo
	10:00 -10:30				-random, chirp, digital stepped sine)
	10:30 -11:00			10:00 -11:00	MIMO-FRF, Multiple Coherence - example
	11:00 -11:50				measurements (or previous data) (Shaker
		the process: make measurements			independence/PCA, shaker anomalies, number of
	1:00 - 2:00	2:50 Hammer - Tips; Force/Exponential Window; Coherence - example measurements			shakers)
	2:00 - 2:50			11:00 -12:00	Measurement Inconsistencies from Poor Testing - Implications for Modal Test
				1:00 - 2:00	Impact Testing - Additional Items for consideration Frequency Range - Multi-bands; Skewed Inputs,
	4:00 - 5:00	Hammer - Multiple Impacts; Roving/Stationary Hammer - example measurements			ICP Low Frequency;
				2:00 - 3:00	Shaker Testing - Additional Items for Consideration
Location: Toronto, Can		da Contact: da Daniel Larose dlarose@dalimar.ca			Stinger types, stinger effects, impedance heads, general shaker set up SLSO/MIIVIO, mass loading, effect on modal analysis (stability, modes extracted)
				3:00 - 4:30	Closing Remarks - Q&A

The cost of the training session is **\$736 CAD.** This fee covers the course, training materials, a hands-on lab section, and meals.

Please contact Daniel Larose to submit payment: dlarose@dalimar.ca