

Welcome to Issue #72

Bonjour! Welcome to the September issue of the "Dynamic Sensors & Calibration Tips" newsletter. We are excited here because it's football season! Regardless of whether that's American Football (we have fans here of the Cincinnati Bengals, the Buffalo Bills and the Carolina Panthers) or European Football (we also have big fans of the UEFA Champions League), our team's mental energy around the office is running high. We hope you are finding your workplace to be just as energizing! Here is some information to keep you headed in a positive direction.

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Tip of the Month: One Size Does Not Fit All

While 100 channels of accelerometers has been a traditional guideline for the ROI crossover for the in-house calibration, nowadays, **portable vibration calibrators** with limited functionality provide value and payback crossover for owners with as few as 50 channels.

Technical Exchanges

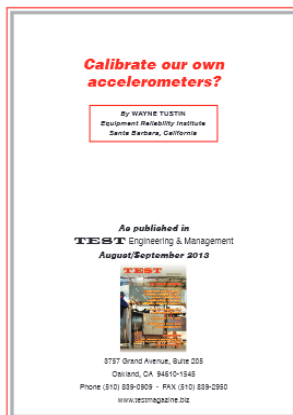
[Automotive Testing Expo](#)
Oct. 22-24

[NCSLI Southern Ohio/Kentucky
Fall Section Meeting](#)
Oct. 30

[SAVE \(Formerly SAVIAC\)](#)
Nov. 3-7

Quick Links

Calibrate Our Own Accelerometers? By Wayne Tustin [Excerpted From *Test Engineering & Management* Magazine]



Long-time test professional, Wayne Tustin of the Equipment Reliability Institute, recently interviewed The Modal Shop Calibration Product Group Manager, Mr. Eric Seller, on the topic of vibration calibration return-on-investment. The following article, "[Calibrate Our Own Accelerometers?](#)" (printed in the August/September 2013 issue of *Test Engineering & Management*

magazine) is the most recent in a series of educational articles authored in Wayne's parable style featuring the fictional, newly minted computer engineering graduate, Joe Youngman.

[Click to read full article](#)

modalshop.com/calibration.asp?ID=883

Monitoring Structural Dynamics with a Microphone

Finding easy ways to educate and reinforce the basic principles of structural dynamics can be a challenge. The following application note, "[Monitoring Structural Dynamics with a Microphone](#)," from the Texas Christian University College of Science and Engineering outlines a very simple test apparatus and exercise that students can use to both manually calculate and compare experimentally determined natural frequencies



[PTB](#)
[NIST](#)
[ISO TC 108](#) - Mechanical vibration, shock and condition monitoring
[ISO TC 108/SC 3](#) - Use and calibration of vibration and shock measuring instruments
[ISO TC 108/SC 6](#) - Vibration and shock generating systems
[SAVE \(Formerly SAVIAC\)](#)
[Vibration Institute](#)
[Equipment Reliability Institute \(ERI\)](#)
[TMS Video Vault](#)
[Learn More Calibration](#)

Previous Newsletters

[Dynamic Sensor & Calibration Tips #71 -](#)

Pressure Calibration in Ballistics Testing; Shakers & Accelerometers

[Dynamic Sensor & Calibration Tips #70 -](#)

Methods for Field Calibration; Giant Crystal Cave Comes to Light

Select Newsletter Articles by Topic

[Function and Structure of Accelerometers](#)

[Similarities Between Charge and ICP Operation](#)

[Selecting Accelerometers for Mechanical Shock](#)

[Master List of Topics \(T.O.C.\)](#)

PCB Group Companies

[The Modal Shop Systems & Service Website](#)
[PCB Piezotronics Sensor Website](#)
[IMI Monitoring Website](#)
[Larson Davis Acoustics Website](#)
[PCB Load & Torque Website](#)
[SimuTech FEA Website](#)

using only the simplest of measurement instrumentation--a single shaker and single microphone.

[Click to read full application note](#)

Congratulations to Fluke On Their Viral Video



Congratulations to the folks at Fluke who engineered a viral video success in their video creation entitled "[Vibrations.](#)" The short video is a compilation of dynamic views of

impacting and vibrating structures filmed at 1000 frames per second.

[Click to watch video](#)

Thanks for joining us for another issue of "Dynamic Sensors & Calibration Tips." As always, please, speak up and [let us know what you like](#). We appreciate all feedback: positive, critical or otherwise. Take care!

Sincerely,

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A PCB Group Company
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