

Greetings!

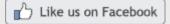
Welcome to Issue #69

Greetings from the road. This month's issue comes to you from the Pacific Rim corner of the world. I have been fortunate to have visited the countries of Japan, Korea, China and Singapore last week...and I am pleased to report that their economies continue to grow. The automotive market in this corner of the world is as strong as ever, and vibration sensing is playing a part in making cars smoother, quieter, more efficient and reliable. Here at TMS and PCB Group, we want your vibration sensing experience to be smooth, efficient and reliable, too. Read on for this month's bit of education and information.

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Tip of the Month: Implement Operation Practices Within Standards

Understand how implementing operation practices within the framework of technical and quality standards can help your organization. ISO 9001, ISO 17025 and ISO 16063 can all be important pillars of quality operation of vibration, testing and monitoring.

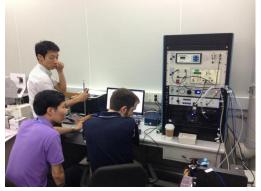
Technical Exchanges

NCSLI- Nashville, TN July 14-18, 2013 Dynamic Sensors & Calibration Seminar - Nashville, TN July 19, 2013 NI Week - Austin, TX Aug. 5-8, 2013 Noise-Con - Denver, CO Aug. 26-28 PCB Calibration Open House -

Accelerometer Calibration -"Trust But Verify"

This month's travels have brought team members from

The Modal Shop to visit Korea Testing Laboratory outside of Seoul, Korea. In speaking with Mr. Jae Taek Moon, Principle Engineer of the Machinery and Mechanical Standard



Center, he shared with us that the discipline of calibration is very strong in the Korean culture. This reminds me of the old saying, "Trust But Verify," and is an extremely good axiom to remember with dynamic calibration. It is a good policy to have a number of layers of verification integral to both the calibration system and the operation process...

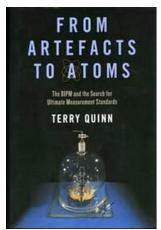
Click to read full article

modalshop.com/calibration.asp?ID=836

Upcoming NIST Colloquium

Terry Quinn, Emeritus Director, Bureau International des Poids et Mesures will speak in a NIST colloquium this July 11th on his book "From Artefacts to Atoms: The BIPM (Bureau of Weights and Measures) and the Search for the Ultimate Measurements Standards."

In this lecture, Dr. Quinn will



outline the origins of the Metre Convention, the creation of the BIPM (and its development since 1875), as well as the

parallel move from units of measurement based on material artefacts to those units based on the constants of nature.

He will end with a description of a simple device made from Lego© blocks and a loudspeaker that demonstrates the principles of the watt balance, one of the ways of realizing the future definition of the kilogram based on a fixed numerical value for the Planck constant.

Click for more details

Blast From The Past: Improving Your Accelerometer Calibration Reference Measurement at Low Frequencies

Accelerometer users in the structural testing field often

ask about how to calibrate a sensor's performance at the low end of the frequency response curve. Since most manufacturers start the standard factory calibration at 10 Hz, there is typically no data



delivered with an accelerometer documenting its low frequency performance. To measure this data, a supplemental low frequency calibration must be performed...

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modalshop.com/calibration.asp?ID=236

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

Sincerely,

Michael J Sally

Michael J. Lally The Modal Shop

Farmington Hills, MI Aug. 30-31

Quick Links

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 #68 -

How Low Can Your DVM Go?; Non-Contact Displacement Sensor Calibration

Dynamic Sensor & Calibration Tips #67 -

NIST to Reaffirm Vibration Calibration; Low Frequency Calibration Needs Support Standard ISO 8041:2005

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 A PCB Group Company mike.lally@modalshop.com



