

Michigan

Sam Davis



The Michigan sections fall meeting drew 37 attendees (two of which were students from U of M Dearborn College) to take part in a full day of measurement training on the topic of “Dynamic Sensors and Calibration Techniques.” This measurement training was provided and sponsored by Eric Seller and Bob Auchterlonie from The Modal Shop, Inc., a PCB Group Company.

The Event began with a warm welcome to all attendees and presenters. Lloyd Baker from GM gave the NCSLI Board update, also upcoming events and how to become a member of NCSLI and the benefits of being a member.

Bob Auchterlonie from PCB began the training section by speaking on accelerometer types and theory and cabling of an accelerometer, mounting methods effects of high frequency accelerometers when performing a test or calibration using accelerometers. He also spoke on accelerometers vibration in terms of the “G” and sensor applications and how accelerometers are used in the field. Plenty of demos and cut away examples of accelerometers were passed around the room for attendees to examine, while going through presentations.

Eric Seller from the Modal Shop began his presentation discussing the basics of accelerometer calibration and what is Calibration? His discussion included how often you should calibrate your accelerometer and how the user should be included in determining the calibration cycle. Eric also touched on the uncertainty contributor (systemic and random component) to the accelerometer calibration. He also gave an example of the uncertainty budget chart for an accelerometer.

After lunch Eric Seller did a demonstration on accelerometer calibration using The Modal Shop, 9110D Portable Vibration Calibrator. In closing Bob Auchterlonie talked about different types of microphones (Free Field, Random Incident and Pressure) and how they work and Eric Seller touched on microphone calibration (closed and open circuitry) and sensitivity.

I would like to thank The Modal Shop for their sponsorship and providing the excellent measurement training - it was a great success.

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