



1311 Twin Cities Meeting.



NCSLI Section 1311 met in Shoreview, MN at the Shoreview Community Center. The full day event had five speakers and 93 attendees. The meeting was sponsored by Precision Repair and Calibration, [www.precisionmn.com](http://www.precisionmn.com). They have been operating in the Twin Cities for over 25 years.

Jamie Durand, Jane McDougall, Jay Erickson and others from Precision provided the host presentation. Precision provides numerous calibration and repair services to the Twin Cities and beyond. They also have an extensive training and equipment sales capability. We are very grateful to the folks at Precision for providing the venue, breakfast, and afternoon treats!

After the host presentation we had a round of Trivia by Kevin Rust, past section coordinator. Many of the meeting evaluations rave about his Trivia! He is also the photographer for our events. Thank you Kevin!

Dilip Shah from E=mc3 Solutions, presented Developing an Electrical Measurement Uncertainty. Dilip has presented many times at our section meetings and he always has a great presentation. And he loves to drive – all the way from Ohio to the Twin Cities! Dilip's presentation focused on developing an uncertainty budget for electrical measurements.

Accrediting bodies can specify minimum contributors to Measurement Uncertainty (MU) budgets. A2LA listed some of the requirements for electrical MU budgets in their June 2009 newsletter. This presentation demonstrated development of a DC Voltage Measurement Uncertainty for a Fluke 5520A Multi Function Calibrator using those recommendations. Ian Ciesniewski from Mettler Toledo Inc., presented Good Weighing Practices and Balance Stewardship.

Ian also traveled to the Twin Cities this morning, braving a snow storm to get here. Ian has presented with us before, and we always learn something new about balances and weighing.

Ian presented on Good Weighing Practices and Weighing Uncertainty. Approximately 95 % of analytical balance weighing inaccuracies are no fault of the balance, but can be attributed to a variety of influences within the control of the user or his/her organization.

Tom Johnson from Spinnaker Process Instruments, presented Simplified Remote Process Monitoring and Data Logging. DCS (Distributed Control Systems) and PLC (Programmable Logic Controller) networks have been relied on for decades to remotely manage industrial processes and to automate buildings. A new technology allows the average user to setup a remote monitoring system that will log data and send email alerts using the building's existing local area network such as the Maverick Internet Appliance.

Terry Conder from 3M and the NCSLI Conference VP, provided an update from the NCSLI Board of Directors. Terry also provided us with up-to-date information on the next NCSLI conference and other activities within the NCSLI.

Eric Becker from Faro Technologies, presented Contact & Non-Contact Measurement Devices: Past, Present & Future. A review of the brief history of non-contact measurement devices, the current state of these devices as well as where the technology is headed. Eric also provided a live demonstration of the Faro Arm which combines contact and non-contact measurement capabilities.

Gary Hobart from Hexagon Metrology, presented Selecting the Tool for the Job: A Multi-Sensor Window of Opportunity.

Gary was the last speaker of the day, although he arrived early in case one of the speakers who was flying in would be late. Many thanks Gary! Gary's presentation was about multi-sensor measurement technology. Gary presented the pros and cons of multiple types of sensors, in particular were vision, touch, laser, white light sensor, and optical micro-touch.

The final event of the day is the Door Prize Finale! We have dozens of door prizes to give away each meeting and this one was no different. The grand prize was a two or three hour webinar provided by Paul Hanssen, owner and president of WorkPlace Training.

A huge thank you to our speakers and to the Section Steering Committee. They are the main reason our events are so successful and so well attended.