



From left to right: Paul Hanssen, Kim Anderson, Rob Remer, David Kreitlow, Chaundra Rideaux, David Deaver, Jeff Tetzlaff.



The Twin Cities Section 1311 conducted its 3rd meeting of the year on October 6<sup>th</sup>, 2010 which was sponsored by Workplace Training and FasTest. The meeting was held at the Southshore Community Center in Shorewood, MN. There were four speaker presentations, a summary of the

2010 NCSLI conference, the NCSLI Board of Directors update, open discussion session, an award presentation and door prizes.

We had 102 attendees representing numerous companies and industries throughout the region. We are very fortunate to consistently have such a large attendance.

The meeting was sponsored by Workplace Training and FasTest. Paul Hanssen from Workplace Training and Kim Anderson from FasTest presented on their respective companies. Workplace Training provides training on calibration, metrology, quality systems, uncertainty, lab management, etc., via computer based training software, onsite classroom, and online webinars. FasTest provides highly versatile pressure connectors for calibration and industry needs. These connectors operate in all environments and provide reliable quick connect/disconnect without the use of tools or switching connectors on units under test.

The first presentation was on "Developing a Torque Transducer Calibration System" by Dave Kreitlow and Bob Remer from MTS Systems Corporation. MTS developed a system that enabled them to expand their *ASTME 2428* torque calibration capability from 12K in lbf to 100K in lbf. This also enabled them to calibrate 95 % of their torque standard inventory in-house. It also saves them \$100,000 per year!

Chris Kuczynski with Fox Valley Metrology presented as the featured laboratory. Each meeting we select a local calibration laboratory to present on their lab. Fox Valley provides full service calibrations through in-house and onsite services. They have four locations which provide calibration services throughout the US and Mexico. They also have a robust paperless calibration system they developed themselves in order to meet customer expectations and their business needs.

Next up, Kevin Rust presented Herb O'Neil with the NCSLI Metrology Professor Contribution Award plaque which was awarded at the NCSLI International Workshop in Rhode Island this summer. Herb has dedicated many years to the education of calibration and metrology. Recently, Herb retired from teaching and he will be sorely missed!

The second presentation was by Chaundra Rideaux, FDA Public Relations Specialist. The presentation "FDA Increased Emphasis on Calibration and Supplier Controls" provided a good review of the FDA QSR requirements for calibration. The main message was the FDA will increase emphasis on calibration services which are outsourced to an external calibration supplier.

The third speaker was David Deaver, 2010 NCSLI Wildhack Award Winner, representing A2LA. We were very fortunate to have Dave presenting "Minimum Uncertainty Contributors for an Electrical Uncertainty Analysis, an A2LA perspective." Dave provided some background information on accreditation bodies, such as A2LA, and their role in interpreting standards and applying them. The conclusion from his presentation is the calculating FS & MS uncertainties and linearly interpolating is a much better Calibration and Measurement Capability (CMC) model than combining FS Uncertainties plus the floor of the standard CMC model.

After lunch we had a quick door prize session, always a favorite event for everyone.

Terry Conder, 3M and the NCSLI Conference VP, provided an update on the 2010 NCSLI Conference in Rhode Island. He also provided a Board of Directors update.

Recently, the Twin Cities Section formed a METCAL users group to take advantage of the extensive expertise in this area. Terry provided an update on the user's group activities.

The fourth speaker was Jeff Tetzlaff, Nalco 3D Trasar. He presented "Meeting Global Business Demands for Sustainable Resource Management by Saving Billions of Gallons of Water." Nalco manufactures chemicals and measurement technology to significantly reduce water testing cost & time and literally saves billions of gallons of water a year.

Our next topic was "Ask a Question" which is an open discussion. Dave Deaver stepped up to answer more questions on uncertainty. This was a very hot topic and he was the only speaker. In fact, the MTS folks were later seen escorting him to their facility for a more "intense" interrogation. I hope Dave at least got dinner!

We finished the day with more door prizes including a Fluke Multimeter and the ever popular 3M gift packs.