

Matthew Denslow



Southern Ohio/Kentucky



The Southern Ohio/Kentucky Section held a meeting on October 7, 2015. Columbus State Community College (CSCC) hosted the meeting at their Columbus Ohio campus. The Bionetics Corporation, Newark Metrology Operations, sponsored meeting refreshments and breakfast for attendees. Mr. Matthew Denslow, Bionetics Training Manager and Section Coordinator greeted attendees. I would like to thank Mr. Bill

Hughes, Mr. Dick Bickerstaff and Ms. Nathell Grubbs from CSCC for their assistance coordinating this event. Mr. Dean Bortz, Associate Professor for the Construction Sciences and Engineering Technology Departments welcomed attendees before departing to teach class. We appreciate his time.

Mr. Lloyd Baker, 1130 NCSLI Mid-Western Regional Coordinator, General Motors, opened the agenda reviewing the recent NCSLI Board of Directors' meeting activities. Lloyd pointed out the new volunteer opportunities within NCSLI announcing the Military Test and Calibration Outreach and the Millennials committees.

Next, Dr. Hy Tran, PE, NCSLI Central Division VP and metrologist with the Sandia National Laboratories Primary Standards Laboratory discussed the "Verification of Dimensional

Southern Ohio/Kentucky Meeting.

Performance of a Fringe Projection Microscope.” Following an overview of the microscopes operation, Hy reviewed the results of a measurement experiment made of a 3-D test object using both a projection microscope and a coordinate measuring machine (CMM). While the results were not formal, measurements made with the CMM appeared more reliable. Hy continued by providing a short tutorial on estimating measurement uncertainty components using Monte Carlo Simulation technique. Following a quick review of the higher order math functions, Hy demonstrated building a simulation model within Microsoft Excel producing the value for Pi and stressing the large number of iterations within the simulation necessary to attain confidence for even a two-digit resolution. Hy explained how simulations could assist when determining the relevance of components within a complex uncertainty analysis.

Mr. Ryan Fischer, 146 Accreditation Resources and Liaison Committee Chair, 1134 Northern Indiana Section Coordinator; Calibration Program, PT/ILC Program Manager for L-A-B discussed Applying ILAC P14 requirements to Laboratory Measurements. Ryan highlighted several key issues experienced when applying the ILAC requirement, accounting for the measurement uncertainty when making statements of compliance and ensuring requested services provide what you want whether you are the customer or provider (the importance of contract review). Ryan points out

that many calibration laboratory customers find the concept of uncertainty difficult and that it is our job as calibration providers to ensure that the customer can correctly interpret the measurement results (*this is the writer's interpretation of the presentation*). Additionally, Ryan provided examples of unacceptable and acceptable calibration services contracts. Acceptable contracts contained sufficient details to ensure the customer requirements and providers capability are known.

Following lunch Mr. Dave Nebel, DEN-Tech Services, reviewed and discussed the NCSLI Position Statements concerning the Proposed Changes to *ISO/IEC 17025, General Requirements for the Competence of testing and calibration laboratories*. This presentation was originally given during the annual NCSLI conference. After reviewing the ISO/CASCO process, attendees noted that the ISO/CASCO “Committee Draft” revision of the document had been recently published superseding some of the presentations points. Thank you to everyone that shared his or her opinions and comments.

Closing the meeting Professor Adele Wright, M.E.T, CSCC Construction Sciences and Engineering Technology Departments provided an overview of the numerous educational programs offered by the school.

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