



**Southern Ohio/Kentucky Section 1132**  
**Matthew Denslow, Section Coordinator**  
**Hosted By: Bionetics Corporation**  
*April 23, 2008*

The Mid-West Region Southern Ohio/Kentucky Section 1132 held its first meeting of 2008 on April 23 in the Concord Room of the Court-yard by Marriott in Newark, Ohio. Hosted by The Bionetics Corporation (operators of the Air Force Primary Standards Laboratory), attendees networked and enjoyed breakfast to begin the meeting.

The meeting was a success with 28 attendees from around the region. In special attendance were Mr. Lloyd Baker, Regional Coordinator Mid-Western US; Ms. Karen Semer, Director, NCSLI Conference Technical Program; Mr. Mike Cadenhead, Chair, 142 Measurement Comparison Committee.

After introductions by Mr. Ben Fullen, AFPSL Program Manager, Mr. Lloyd Baker inspired the crowd with his presentation on the many “Benefits of NCSLI Membership.” Mr. Baker focused on the various resources available to members from the “myNCSLI.org” website. After accessing the website, members can browse Conference proceedings, newsletters, NMI publications, and many of the Lab Management and Recommended Practices published by NCSL. Mr. Baker ended the presentation by reminding attendees about the importance of being involved.

Mr. Doug Leonard, Managing Director, Laboratory Accreditation Bureau briefed the audience about the National Cooperation for Laboratory Accreditation (NACLA). Mr. Leonard discussed NACLA’s purpose, vision, objectives and



Mr. Doug Leonard addresses the role of NACLA.



Mr. Shah begins the presentation.

reviewed the organizational structure. Mr. Leonard provided examples of NACLA recognized Accrediting Body(s) and the Federal Agencies that accept NACLA recognized ABs. Mr. Leonard concluded his presentation with NACLA’s plan for the future.

Mr. Dilip Shah, President, E=mc<sup>3</sup> Solutions, continued our program with “Using Gage Repeatability and Reproducibility Data for Measurement Uncertainty Analysis Budgets.” Mr. Shah’s presentation provided a brief overview of and techniques for performing Gage R & R

studies that are useful for both calibration and testing laboratories. Mr. Shah ensured group participation by asking attendees to perform measurements of a tape dispenser using a dial caliper (for demonstration purposes we imagined it calibrated).

He utilized the measurements to demonstrate how the Gage R & R could be incorporated as a Type A Uncertainty Analysis budget. Mr. Shah emphasized a point that many organizations include repeatability data in the initial Uncertainty calculation but do not attend to reproducibility as their system matures. This point brought about much discussion within our meeting that I am sure will continue across much of our Metrology community.

Following a brief lunch, Mr. Bryan Wilkerson, Microwave Technician with Dynamic Technology Inc., Hartland, MI presented “Management of Measurement Errors in High Frequency Measurements.” Mr. Wilkerson’s discussion included common problems in good high frequency connections, the affects of bad connections, minimizing techniques, management of measurements with less than ideal connectors, and a study on the use of connector savers.

We closed the meeting by drawing for door prizes and asking for feedback. A fall meeting is being planned for the last week in October. The date and agenda have not been set. ■

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