



Central Florida Section 1222
Elly Speary, Section Coordinator
Hosted By: Lockheed Martin
 May 8, 2008

The Region 1222 Central Florida Section of the NCSLI held their spring meeting on May 8, 2008 at Lockheed Martin Simulation Training and Support in Orlando, Florida. Bart Hynes, LM STS Manager of Test and Assurance, welcomed the speakers and attendees to Lockheed STS and provided a brief summary of Lockheed Martin STS Business Operations. To kick the meeting off, our Sponsor, Jeff Stevens of Southern Marketing Associates, provided a large assortment of pastries, coffee, and afternoon refreshments to the members. Our fall meeting hosted 53 attendees from 23 different companies.

Our guest speakers included Ron Ainsworth of Hart Scientific, Randy Fowler of Fluke Corp., Perry King and Paul Reese of Wyle Labs, and Jerry Gaffney of GEC Instruments. We would like to thank all of our presenters, their respected companies, and NCSLI for providing a great meeting.

Our first speaker was Ron Ainsworth of Hart Scientific. Ron's presentation "Temperature Uncertainty Budgets, and How to Use them," provided a vast amount of information concerning evaluation of uncertainties and effects that must be taken into consideration on various thermocouples and thermometer measurements and calibrations. Ron did an outstanding job in defining the tools and calculations needed to allow accurate temperature measurements.

Our next speaker was Randy Fowler of Fluke Corporation. Randy's presentation was titled "Characterizing & Disciplining Electrical Calibrator Instrumentation to Improve Test Accuracies & Measurement Uncertainties." Randy presented practical methods in improving inadequate traceable accuracies of existing calibrators for supporting new improved instrumentation. Randy demonstrated how characterization by means of identifying actual performance errors of calibrators will improve calibration uncertainties, thus improving both increased quality and confidence in calibration tests over a greater workload.

Our next speaker was Perry King of Wyle Labs. Perry's presentation, "The New ANSI/NCSLI Z540.3 Standard" included some of the new requirements of the ANSI/NCSLI Z540.3 Standard as it relates to tolerances, accuracies, and reliability as asso-



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Hart Scientific



Jerry Gaffney,
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Randy Fowler,
Fluke Corp.

ciated to False Accept Risk Requirements (FAR). Perry provided various computation methods and explanations for successful FAR analysis for the new standard.

Lunch was next on the agenda. Lunch was graciously provided by our meeting host, Ray Minchin, Calibration Services Manager at Lockheed Martin Simulation Training and Support.

Following lunch, our next speaker was Jerry Gaffney of GEC Instruments. Jerry's presentation "Ultra Accurate Temperature Measurements with Thermocouples" provided genuine definitions pertaining to thermocouple measurements, and how accuracies can be improved in the measurement process. Jerry also provided a live demonstration of thermocouple measurements giving real time data utilizing an ice bath and laptop for a controller.

The final event for the day was a factory tour of Lockheed Martin Simulation Training & Support facility.

We would like to give special thanks to Ray Minchin and Lockheed Martin for hosting this conference and to Jeff Stevens and Southern Marketing for providing the morning and afternoon refreshments. We would also like to give special thanks to Chris Isler and Tim Alongi for providing the factory tour of the Lockheed Martin facility. ■

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