



# Harrisburg Quality Currents

The Global Voice of Quality™

## Monthly Meeting Notice: December, 2016

**When:** Wednesday, December 14, 2016

Registration: 5:30 p.m. - 6:30 p.m.

Dinner: 6:30 p.m. - 7:30 p.m.

Program: 7:30 p.m. - 9:00 p.m.

**Where:** Four Points by Sheraton York

Phone: 717-846-4940

1650 Toronita St., York, PA 17402

(Use MAPQUEST for directions)

**Menu:** **Classic Four Points Buffet:** Fresh mixed salad, two Chef Specialty salads, two salad dressings; Assorted warm rolls and butter; Chicken Cordon Blue, NY Sirloin steak; Garlic whipped potatoes and either whole baby carrot or seasonal veggies; Assorted desserts; Coffee and tea service

**Please register on-line, NO LATER than 2:30 p.m. on Friday, December 9, 2016 at:**

<http://www.asq-harrisburg.org/dinnermeetings.php>

**Preregistration: Members:** \$25.00, **Guests:** \$30.00, **Students:** \$15.00

**At the door: Members:** \$30.00, **Guests:** \$35.00, **Students:** \$15.00

**If registering a guest on-line, please use the comment field to provide the names of our guests.**

### **What: MSA and Measurement Uncertainty – Which comes first? A Chicken and Egg Dilemma:**

Many organizations question if the traditional Gage R&R studies as defined by the AIAG Measurement Systems Analysis (MSA) manual should be conducted during the calibration of an instrument. The traditional AIAG Gage R&R study helps determine a Gage's ability to discriminate between measurement differences of different production parts and identifying operator, instrument and part variation. When a gage is calibrated, it is measured at several fixed points across its range. Each measurement point calibrated is reported with its result and associated measurement uncertainty. The estimation of the measurement uncertainty includes a repeatability study and a possible reproducibility study. Does this come from Gage R & R Study?

This presentation will provide guidance on what measurement study should be conducted first and why. It will define measurement related terminology and how it should be applied in production, and calibration environments for proper decision making.

### **Who: Dilip Shah**

Dilip A. Shah has over 35 years of industry experience in metrology, electronics, instrumentation, measurement and computer applications of statistics in the Quality Assurance areas. He has been employed in various positions with Philips Electronics (UK), Kodak Ltd. (UK), Instruments Division of Monsanto Corporation, Flexsys America and Alpha Technologies. He is currently a Principal of E = mc<sup>3</sup> Solutions, a consulting practice that provides training and consulting solutions in ISO/IEC 17025, ISO 9001, Measurement Uncertainty and computer applications.

Dilip is an ASQ Fellow and certified by American Society for Quality (ASQ) as a Certified Quality Auditor, Certified Quality Engineer and Certified Calibration Technician. He is the co-author of The Metrology Handbook (1<sup>st</sup> and



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2<sup>nd</sup> editions) published by the ASQ Quality Press and is a frequent contributor to the ASQ Quality Progress Magazine's Measure for Measure column and ASQ Expert Answers Blog Contributor.

## Leadership Committee -- 2016-2017

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**Brian C. Davis**

MS RA, ASQ CMQ/OE, CQA and CQE

[brian.c.davis@intertek.com](mailto:brian.c.davis@intertek.com)

*Building Products Manager of QA&HSE*

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President, Ledge Inc.

(717) 965-6378

[amarsh@ledgeinc.com](mailto:amarsh@ledgeinc.com)

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Consultant, Quality and Test Engineering

York, PA

(717) 751-7742

[dfisherashbg@gmail.com](mailto:dfisherashbg@gmail.com)

### **SECRETARY:**

**Toni Tunstall**

Quality Manager

Armstrong Flooring

(717) 672-7688

[TLTunstall@armstrongflooring.com](mailto:TLTunstall@armstrongflooring.com)

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Armstrong World Industries

[sahaldeman@armstrong.com](mailto:sahaldeman@armstrong.com)

### **ASQ Web Site:**

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