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Section 0904
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Volume 54

March 2003

Number 6

“Measurement Uncertainty”

By Dilip A. Shah (CQE), E = mc³ Solutions, Inc.

Pre-Clinic: 6:00 PM Measurement Uncertainty
Dinner: 6:30 PM Meal Cost: Pay Restaurant
Program: 7:30 PM

Wednesday, March 19, 2003 6:00 PM

About the Program: Many quality standards require companies to use ISO 17025 accredited laboratories for their calibration requirements. ISO 17025 requires an estimation of Measurement Uncertainty when performing calibration. This presentation will introduce the beginner to the concept of using Measurement Uncertainty calculations in metrology and other related applications. The workshop will familiarize the user with the terminology used in Measurement Uncertainty and how it is applied.

About the Speaker: Dilip Shah has more than 25 years of industry experience in metrology, electronics, and instrumentation, measurement and computer applications of statistics in the Quality Assurance areas. He has been employed in various positions with Phillips Electronics (UK), Kodak Ltd. (UK), Instruments Division of Monsanto Corporation, Flexsys America and Alpha Technologies. He is currently a Principal of E = mc³ Solutions, a consulting practice that provides training and other solutions in ISO9000/QS9000, ISO17025, measurement and computer applications. Dilip is an American Society for Quality (ASQ), Certified Quality Engineer and volunteers his time with the local Akron-Canton (Ohio) ASQ section where he is the immediate past-chairman (2001-2002). Dilip has been a member of the advisory board of the University of Akron Engineering and Science Technology Division since 1988. Dilip also belongs to the Statistics and Measurement Quality Divisions (Chair-Elect 2002-2003 year) of American Society for Quality. His current project participation with the Measurement Quality Division is the development of an ASQ Certified Calibration Technician exam. Dilip participates actively in the measurement related issues through NCSLI (National Conference of Standards Laboratories International) and the west coast based Measurement Science Conference.

Meeting will be held at:

Sirloin Stockade

4949 W. Hessler Rd., Muncie, IN Phone:(765) 287-9051
Bad Weather! – Call the Restaurant Directions on Page 4
RESERVATIONS: Not Required - Pay the Cashier

Section Information:

2002-2003 Section Officers

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| Re-Certification & Special Projects | Rich Ehmer Manual Transmissions of Muncie (765) 281-2501 ehmer@munciellc.com |
| Region 9 Director | Mike Mazu (812) 853-4896 pmazu@aol.com |

Section 0904 Calendar

2002 – 2003

| | |
|---------------------|-----------------------------------|
| <i>September 18</i> | <i>Dinner & Program</i> |
| <i>September 24</i> | <i>Board Meeting</i> |
| <i>October 4</i> | <i>Deadline: Dec. Cert Exam</i> |
| <i>October 16</i> | <i>Dinner & Program</i> |
| <i>October 19</i> | <i>Certification Exams</i> |
| <i>October 22</i> | <i>Board Meeting</i> |
| <i>November 6</i> | <i>Delco Remy Tour</i> |
| <i>November 19</i> | <i>Board Meeting</i> |
| <i>December 4</i> | <i>Delphi Plant 20 Tour</i> |
| <i>December 7</i> | <i>CQE / CQA Exams</i> |
| <i>Jan 7, 2003</i> | <i>Board Meeting</i> |
| <i>January 10</i> | <i>Deadline: March Cert. Exam</i> |
| <i>January 15</i> | <i>Dinner & Program</i> |
| <i>January 21</i> | <i>Board Meeting</i> |
| <i>February 19</i> | <i>Dinner & Program</i> |
| <i>February 26</i> | <i>Board Meeting</i> |
| <i>March 1</i> | <i>Certification Exams</i> |
| March 19 | Dinner & Program |
| March 26 | Board Meeting |
| April 4 | Deadline: June Cert Exam |
| April 16 | Dinner and Program |
| April 23 | Board Meeting |
| May 21 | Dinner & Program |
| May 28 | Board Meeting |

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Contact:

The Newsletter Editor: Bob Cooper

Chat from the Chair:

The following slate of officers was presented by the nominating committee at our February meeting:

Section Chair: Rhonda Goss
 Section Chair-Elect: Mike McDonald
 Secretary: Steve Scott
 Treasurer: Rich Ehmer

Nominations for Section 904's officers for 2003-2004 will be open at the March meeting, immediately preceding the election. A nomination from the floor requires prior consent from the nominee, to serve if elected. All nominees must be members in good standing of ASQ Section 904.

The election of Section officers is held early in the calendar year so that when the new officers and committee persons assume the responsibility of steering our Section on July 1st, they will have had time to learn and plan. The learn part is the responsibility of both of the outgoing and incoming leaders. We apply these basic quality management system principles at the Section level to help us reach our goal of continuous improvement. I encourage all Section 904 officers and committee persons to attend the Region 9 training on Saturday, June 19th in Columbus, Indiana.

Food for thought: QS 9000 forced us to gather data. TS 16949 will force us to use that data.

Chuck Darger - Section Chair

Complete, National Training schedule & Enrollment Forms Available online at www.trainingforISO9000.com

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|---|---|---|
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| ISO9000 transition 2000 Managing Change \$495 Chicago Mar 24 May 26 Cleveland Mar 20 May 22 Columbus OH May 8 Indianapolis Apr 17 Internal Quality Auditor \$795 Chicago Mar 24-25 May 26-27 Cleveland Mar 20-21 May 22-23 Columbus OH May 8-9 Indianapolis Feb 13-14 Apr 17-18 |  PHONE 317.815.0142 FAX: 800.556.3789 e-mail: info@trainingforISO9000.com www.trainingforISO9000.com | TS 16949 CHAMPION \$995 <i>The ultimate transition course</i> Chicago Mar 24-25 Jun 12-13 Cleveland Mar 17-18 May 19-20 Columbus OH Apr 3-4 Indianapolis Apr 3-4 Jun 5-6 16949 Internal Auditor Training Chicago Mar 27-28 \$895 Cleveland Mar 20-21 Columbus OH Apr 10-11 Indianapolis Apr 17-18 |

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Welcome New Members:
Michael Henry
Richard Jakubiak

February 2003 Meeting Summary

Twenty-eight members and guests attend our February meeting. Doorprize Winners: Bruce Hunnicutt took home the CQE Handbook, Henry Peresie the Six-Sigma Handbook, an Vicki Storer won the Free Meal. Thomas Ancich's name was drawn for the \$100 Attendance Jackpot - but he was not at the meeting.

Directions to Sirloin Stockade:

From Muncie: Follow McGalliard Road. (SR 332) West to Morrison Road. Landmarks: Wal-Mart and Lowe's on your left. The Sirloin Stockade is behind the Village Pantry on your right. Turn North (RIGHT) onto Morrison. Road Construction has changed the Sirloin Stockade entrance. Turn LEFT just north of the Village Pantry. Turn LEFT again then straight into the Sirloin Stockade parking lot.

From Anderson: Follow I69 North to SR332 (Exit 41). Follow 332 into Muncie. Turn LEFT onto Morrison Road.

From Marion: Follow I69 South to SR332 (Exit 41). From there it's the same as the Anderson instructions.

From Richmond: Follow US35 North to the Muncie Bypass (SR3 & US35). Follow the Bypass North to the first traffic light and turn LEFT on McGalliard Road (SR332). Follow the Muncie directions.

From Hartford City: Follow SR3 South to the Muncie Bypass and continue to the first traffic light (McGalliard Road). Turn RIGHT on McGalliard Road (SR332). Follow the Muncie directions above.

From Portland: Follow SR67 South to the Muncie Bypass (SR3 & US35). Continue south to the first traffic light (McGalliard Road). Turn RIGHT on McGalliard Road (SR332). Follow the Muncie directions above.



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Our website has a map

Future exam dates and deadlines:

CQA, CQT, CMI, CRE, CQManager
March 1, 2003 (1/10/2003)
CQE, CQA, CSQE, CQIA
June 7, 2003 (4/4/2003)

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Slate of Officers for 2003-2004

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| Secretary: | Steve Scott |
| Treasurer: | Rich Ehmer |



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Section Newsletter

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**Section 0904
East Central Indiana
Founded: 1949
54 Years of Quality in East Central Indiana**

What's Inside:

1. Membership Meeting Notices

***Wednesday,
March 19, 2003***

**“Measurement
Uncertainty”**

Speaker: Dilip Shah

2. Directions to the Meeting

3. List of 2002-2003 Officers

4. Section Calendar 2002-2003