



Greater El Paso
Section
The Global Voice of Quality™

Amigo Quality

Volume 36 Number 10

Welcome to the July 2016 issue of the Newsletter, your local provider of information and learning opportunities related to quality professionals.

Leadership Committee Planning meeting

SCHEDULED TIME: 9 a.m.

DATE: Saturday, July 16, 2016

LOCATION: United Blood Services – 424 S. Hills Dr. El Paso, TX 79912

MEETINGS ARE FREE FOR MEMBERS AND NON-MEMBERS ALIKE

THE CHAIR SPEAKS

Eli Gilbert

JULY is Explosive!!!

As we celebrate the independence of this nation, I can't help but to think that we should also be celebrating the excitement of being a part of a great professional organization like the American Society for Quality. In this month's edition of the Amigo Quality, there are some firecracker articles. Pop into the automotive section to see about the Chinese and Mexican automotive collaboration. Our education section lights a fuse on thought provoking issues in transformation, and our management systems section illuminates the quality inspection of vision system. Last month we had a successful tour of

the Coca-Cola industrial plant here in El Paso. I would like to personally thank Mr. Sergio Vega of Dish – El Paso, for coordinating with Mr. Eric Ruvalcaba and his Quality Assurance Team at Coca-Cola, the experience was truly unforgettable. ASQ, Greater El Paso Section, is here to support your professional development, and while there will not be continuing education meetings, for both July and August, the Leadership Committee will still be convening to put together 2017's year of exciting events. All are welcome to bring ideas of what you would like to see in the future for your Professional Development. ASQ online also has an abundance of resources to better serve quality professionals just like you. Everyone has the opportunity to consult this resource and it's also free for members, so don't hesitate to take a look. www.asq.org

Sincerely yours,

Eli Gilbert

Elijah M. Gilbert
ASQ EL PASO 1401

FLASH! FLASH! FLASH! NO monthly *Continuing Education* meeting is scheduled for both July and August. Please make arrangements to attend September's meeting.

AUTOMOTIVE SECTION

HECTOR LUGO

Thank you to all members contributing with this section. The China's BAIC Motor Corp. started selling cars imported from China in Mexico and aims to reach 5,000 sales a year by 2018, a senior company executive said.

Company Vice President Wei Huacheng said in an interview that the company also aims to build an assembly plant in Mexico to produce gasoline-powered cars and electric vehicles, but offered no details.

"Mexico ... is a very important part (of our) long-term vision," Wei said. The company said it initially will sell a sedan and a small crossover at six dealerships in Mexico, with three additional models to be introduced by the end of the year. BAIC has formed a partnership with local retailer Grupo Picacho.

See you at the meeting!

EDUCATION SECTION

KIM PRIES

I have practiced Taiji Quan (Tai Ch'i Chuan) for roughly six years, both the Wu small frame short form (Youtube video) and the Wu long form (other Youtube video) as well as steel fan (!) and stick fighting, not to mention four different kinds of qigong (taught at <http://www.centerforinternalarts.com/>). These forms generally take years to achieve any level of competency. One can simulate the forms fairly quickly, but the actual form involves hundreds of nuances the normal person cannot see amongst the choreography.

What is the relation of this practice to quality? I would suggest that hardware and software quality require painstaking attention over a long duration, including hundreds and perhaps thousands of nuances. Management tends to like activities that look good such as the Kaizen Blitz (a mashup if I ever saw one), but these are worthless endeavors unless we move to make them sustainable.

I wince every time I see a quality or educational program that promises rapid transformation. In my experience, these transformations usually end with superficial changes to the culture and the loss of many employees in the next reduction in force (mass firing). Real change generally takes much time and a great deal of commitment by all hands. If the putative “transformation” leads to an increase in employee fear, the “transformation” will most likely fail and we will hear comments like “Six Sigma doesn’t work.” Of course it doesn’t when the implementation is brutal. Cultural change is a soft art much like taiji!

Check it out!

MANAGEMENT SYSTEMS

ALFONSO ENRIQUEZ

Around 1654 Van Leeuwenhoek wanted to see the quality of the textiles, and “he went to spectacle makers and got the rudiments of lens-grinding, He visited alchemists and apothecaries and put his nose into their secret ways of getting metals from ores....he was not satisfied with grinding lenses as good as those of the best grade in Holland, they had to be better than the best”¹

Nowadays we have Vision Systems that have lenses, but also have the electronic sensor, and the software to process the data. The measuring of a quality characteristic is important and might have contributed to life loss in some cases such as the challenger failure. A new measuring device was developed following the loss of the space shuttle challenger². The software to analyze coordinate measurement data affects the uncertainty of the measurement. According to Diaz and Hopp³ there is a difference in uncertainty error if the software uses the Cholesky decomposition or the singular value decomposition. In the past, “NASA reported that the data analysis software was the single largest source of error in the entire system”.

Megahed⁴ distinguishes two phases on the use of visual systems for quality inspection: during phase A images are collected, analyzed and during phase B production parts are compared to phase A data. Megahed reports that there are still challenges in the textile industry on the quality inspection of vision system. As Leeuwenhoek had his challenge back then, one challenge a researcher face today

is how to best use linear algebra concept and apply these concepts in pattern recognition visual systems. Megahead describes "A property of digital images is that they are composed of a finite number of elements (pairs of (x, y)), which are commonly referred to as pixels. The number of pixels in an image (usually noted as $m \times n$ where m and n are the number of pixels in the vertical and horizontal directions respectively) is directly proportional to the resolution of the image capturing device." This is translated to an m by n matrix of data

Currently an automotive supplier plant hired me to help them implement a visual inspection system, and we are in phase A collecting the images of more than two thousand components. The 2D machine this automotive supplier company acquired is capable of detecting which part was placed under the scope, and then provide the results for all the dimensions of the parts in a matter of seconds. The device we are using has a camera with 5 Mega pixels, and a repeatability of $3\mu\text{m}$.

¹De Kruif P, Microbe Hunters, Harcourt 1996

²Estler W.T. "Accuracy Analysis of the Space Shuttle solid rocket motor profile measuring device, NIST 1989.

³Diaz C. and Hopp T. "Evaluation of Software for Coordinate Measurement Systems", NIST, 95

⁴Megahed F. "Towards the Utilization of Machine Vision Systems as an Integral component of industrial Monitoring Quality Systems, Master's Thesis Virginia Polytechnic Institute, 2009

RE-CERTIFYING AND ASQ CERTIFICATIONS

STEVEN SCHAFFER

Out of a total of 6 member(s) whose certifications expired December 2015, 1 lost their certifications.

Out of a total of 11 member(s) whose certifications expired June 2016, 10 will lose their certifications if they do not re-certify by the end of December 2016, 0 member(s) re-certifications are being processed and 1 member(s) completed their re-certifications.

Out of a total of 5 member(s) whose certifications will expire December 2016, 5 will lose their certifications if they do not re-certify

by the end of June 2017, 0 member(s) re-certifications are being processed and 0 member(s) completed their re-certifications.

Members can re-certify early! As long as you have enough points you can re-certify as early as six months before your certification expires. Your Certifications will be extended 3 years beyond the certification expiration date you currently have for your certification, so you don't lose anything by re-certifying early. Remember, you can only claim points that you have accumulated up to the time you submit and these points need to be collected during your 3 year certification period. Out of a total of 8 member(s) whose certifications will expire June 2017, 8 will lose their certifications if they do not re-certify by the end of December 2017, 0 member(s) re-certifications are being processed and 0 member(s) completed their re-certifications.

If anyone has questions on how to re-certify to extend their ASQ Certifications and/or how to synchronize them if they have more than one, please let me know. Re-certifying by exam costs more and is a lot more difficult than re-certifying through the accumulation of RU points. You can reach me, the Re-Certification Chair, at 915-241-4780 or (501) 615-8170. Please leave a message on the answering machine if no one answers and I will call back you as soon as I can. You can also reach me via the Internet at spikeguate@sbcglobal.net. I am ready to help with any questions you might have about Re-Certifying or about any ASQ Certifications you might have, call me. The Re-Certification Journal is at the following link and will guide you in the re-certification process <http://asq.org/cert/recertification/rucredits/index>

When re-certifying, **always get the most recent Re-certification Journal information.** The lasted Re-Certification Journal is November 2014. For ASQ members the fee for one certification is \$69.00 and for two or more \$89.00; for non-members the fee for one \$109.00 and for two or more \$109.00 each).

Members who **renew their membership early online** will receive a **coupon code: RCRT in which \$69.00 will be deducted off their recert fees.**

Year	Month	Date	Day	Topic – Speaker	Location
2016	Jul	16	Saturday 9:00am	LC Training & Planning (2017 Financial / Budget)	UBS – 424 S. Hills Dr. El Paso, TX 79912

2016	Aug	13	Saturday 9:00am	LC Training & Planning (2017 Business Planning)	UBS – 424 S. Hills Dr. El Paso, TX 79912
2016	Sep	21	Wednesday 6:30pm	CEMEX - Production	Hilton Garden Inn University
2016	Sep	21	Wednesday 7:30pm	LC Meeting	Hilton Garden Inn University
2016	Oct	19	Wednesday 6:30pm	BIZLINK / FOX COM /NEW BUSI- NESS	Hilton Garden Inn University
2016	Oct	19	Wednesday 7:30pm	LC Meeting	Hilton Garden Inn University
2016	Nov	16	Wednesday 6:30pm	CAREFUSION Tour	Hilton Garden Inn University
2016	Nov	16	Wednesday 7:30pm	LC Meeting	Hilton Garden Inn University
2016	Dec	TBD	TBD	CHRISTMAS PARTY	TBD

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