



Greater El Paso  
Section

# *Amigo Quality*

Volume 28 Number 3

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Welcome to the December 2007 issue of the Newsletter! Your local provider of information and learning opportunities related to quality professionals.

## **MEMBERSHIP MEETING**

**LOCATION:** Home Town Buffet, 9120 Viscount Blvd

**REGISTRATION & SOCIAL HOUR:** 6:15 pm

**DATE:** December 19, 2007

**SPEAKER:** Music

**TOPIC:**

MEETING IS FREE FOR EVERYBODY (MEMBERS OR NON-MEMBERS) AND THE  
SPEAKER STARTS AT 6:45 P.M.

If you want to eat, we start our social hour at 6:15 p.m.

DINNER COST: \$5.40

## **THE CHAIR SPEAKS**

ALFONSO ENRIQUEZ

This year the movie transformers presented how a car is transformed in a robot, and then it shows how the robot is transformed back into a car. Currently, some kids enjoy a three-dollar toy called yada yada; in this toy the kid records the voice, and then he or she can transform the voice into a different low tone or high tone voice. In high school we learned that a function  $f(x) = x$ , is transformed into a different function just by adding a constant:

$$h(x) = x + 2.$$

There are some transformations of particular interest to Quality professionals; "Principal Component Analysis (PCA) determines the factors that explain much of the total variation in data as possible." (Yang and Trewn).

PCA is based on a linear transformation of data, through the use of eigenvectors. The Wikipedia offers a visual transformation of

Mona Lisa, in order to explain how eigenvectors transform the original picture.

Let this Christmas transform you into a Quality professional with a human touch, and that your creativity and talent give hope for the New Year.

Kai Yang and Jayant Trewn, Multivariate Statistical Methods in Quality Management. Mc. Graw Hill, 2004

Wikipedia. The Free Encyclopedia, "Eigenvalue, eigenvector and eigenspace" Retrieved on November 25, 2007. .

<http://en.wikipedia.org/wiki/Eigenvalue>

## **AUTOMOTIVE SECTION**

HECTOR LUGO

Again, we finished another year and I want to thank all the participants in this Section for all your support and the latest on sales of factory automation robots to the auto industry rose from 21% to 47% by revenue in the third quarter of 2007 compared with 2006.

The figures come from a report by the Robotics Industry Association. According to them, the North American auto industry has purchased approximately 8,551 robots with a value of \$565.8 million year-to-date.

What I can see through is an effort being made to improve efficiency in existing plants in order to compete with the Asian transplants that have continued to pop up throughout North America; however, robots cannot help a supplier improve cost or output without the knowledge of how to best apply them in a manufacturing plant.

See you at the meeting!

## **EDUCATION SECTION**

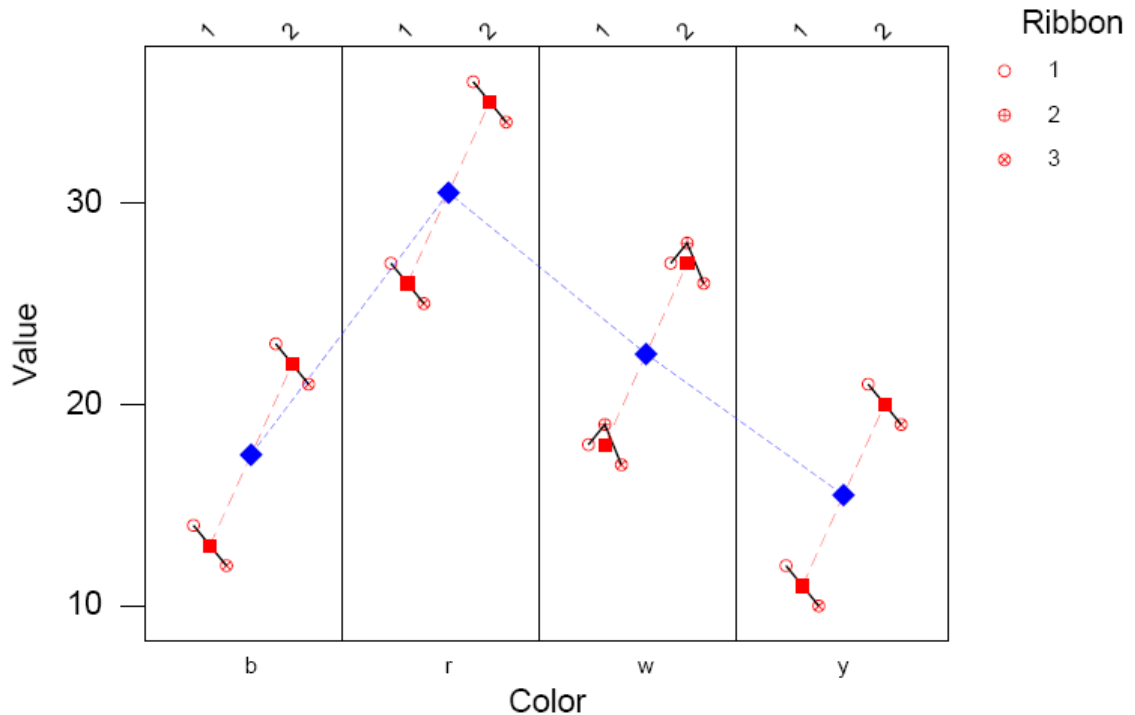
KIM PRIES

Alfonso pointed out the benefit of multi-vari charting in the last newsletter. I have also referred to it in Six Sigma classes as the "poor man's design of experiments." The multi-vari chart allows use to see variation across multiple dimensions (hence, the name) simultaneously. Additionally, the chart more handles categorical values (discontinuous categories) more gracefully than does the DOE.

Use the chart especially for production situations where you want to examine the effects of time-to-time (different shifts), operator-to-operator (between people), part locations (within part), and some fourth numerical (variable) value.

Here is an example of the chart, taken from one of the Goal/QPC Memory Jogger® books.

### Multi-Vari Chart for Value by Ribbon - Color



Notice how the man varies across ribbon color, but not ribbon type. In every case, operator 2 performs better than operator 1. All of this information can be detected instantly!

Make sure to keep this one in the toolbox. If you have enough of the right historical data, you can use the chart to investigate what is really going on...

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### RE-CERTIFYING AND ASQ CERTIFICATIONS

STEVEN SCHAFER

Out of a total of 9 member(s) whose certifications expired June 2007, 3 will lose their certifications if they do not re-certify by the end of December 2007, 1 member(s) re-certifications are being processed and 5 member(s) completed their re-certifications.

Out of a total of 8 member(s) whose certifications will expire December 2007, 5 will lose their certifications if they do not re-certify by the end of June 2008, 1 member(s) re-certifications are being processed and 2 member(s) completed their re-certifications.

**Members can re-certify early!** As long as you have enough points to re-certify early, you can. 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. Out of a total of 12 member(s) whose certifications will expire June 2008, 12 will lose their certifications if they do not re-certify by the end of December 2008, 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 now costs more money, since the prices went up January 2005 and is a lot more difficult than re-certifying. You can reach me, the Re-Certification Chair, at 915-612-7392 during working hours and at 915-584-0033 after hours. Both numbers have answering machines and if I don't answer, I will call you as soon as I can. You can also reach me via the Internet at [spikeguate@sbcglobal.net](mailto: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://www.asq.org/certification/recertification/rucredits/index.html>.

## Potential meeting and dinner schedule

YEAR	MONTH	DAY	TOPIC	LOCATION
2007	December	12		Hometown Buffet
2008	January	16	El Paso's Future by Hispanic Chamber of Commerce	TBD
2008	February	20	Speak from Santa Fe on Auditing	TBD
2008	March	21	ASQ Regional Director	TBD
2008	April	16	NMSU on organization	Las Cruces (Mesilla)
2008	May	21	ASQ El Paso's Chair report & new chair	TBD
2008	June	21	Family Picnic	TBD

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Business Student Section: Rajesh Tahiliani

See above

Our Section is on-line! Make a suggestion – win a FREE meal! <http://asq1401.org>