



Welcome to the January 2010 issue of the Newsletter! Your local provider of information and learning opportunities related to quality professionals.

MEMBERSHIP MEETING

LOCATION:

Furr's Family Buffet - 11925 Gateway Blvd W, El Paso, TX (915) 633-6107 [Map to Furr's Family Buffet](#) (near Zaragoza)

SCHEDULED HOUR: 6:30 pm-8:30 pm

DATE: Wednesday, January 13, 2010 (this time only the second Wednesday)

SPEAKER: Rudy Kittlitz, Jr.

TOPIC: Exponentially Weighted Moving Average

MEETING IS FREE FOR EVERYBODY (MEMBERS OR NON-MEMBERS) AND THE DISCUSSION STARTS AT 7:00 P.M.

We start our social hour at 6:00p.m.

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Upcoming Conference!!!!

March 26 and 27, 2010
College of Business Administration building,
third floor, at UTEP

Douglas Montgomery, author of
Introduction to Statistical Quality Control
Design and Analysis of Experiments
Engineering Statistics
Response Surface Methodology: Process and
Product Optimization Using Designed
Experiments

DANGER!
Rate increases
by \$100 at the
end of the
month

OOPS!!
Don't lose out on
the Early
Registration
Bargains - They
end on January
31, 2010.

THE CHAIR SPEAKS

JOE LISSBERGER

Happy New Year to everyone!
Well we are starting on a new year and I hope that it will be much better than the one we just left. We are starting with an early

meeting this month and thanks to Steve we are trying to get the news letter out in a proper fashion.

The main thing that I have to pass on this month other than the normal meeting is that there are two science fairs this month and we do need judges for both of them. The first is at Terrace Hills MS on Wed. the 13th of Jan. at 1030 AM, and the other is at Canyon Hills MS on Thurs. the 14th of Jan at 2.00 PM. I hope that you will all consider being a judge for these as the kids really enjoy having their work checked and approved by adults.

AUTOMOTIVE SECTION

HECTOR LUGO

Happy New Year to all! Hoping everybody had a wonderful Christmas break and Americans scrapped more automobiles than they bought last year as the ragged economy reduced demand and some major cities expanded mass transit service, according to a new report.

The United States scrapped 14 million autos while buying only 10 million last year, shrinking the country's car and light duty truck fleet to 246 million from a record high of 250 million, according to the report to be released on Wednesday by nonprofit group the Earth Policy Institute.

We are, the world's biggest petroleum user, "is entering a new era, evolving from a car-dominated transport system to one that is much more diversified," said Lester Brown, the president of the EPI.

See you at the meeting!

EDUCATION SECTION

KIM PRIES

Deleuze and Guattari defined the rhizome approach in a seminal article entitled "Introduction: Rhizome" in their book *A Thousand Plateaus*. They listed six principles present in rhizome-like structures:

1. Connectivity—the capacity to aggregate by making connections at any point on and within itself
2. Heterogeneity—the capacity to connect anything with anything else, often through the coupling of disparate pieces
3. Multiplicity—consisting of multiple singularities integrated holistically by external relations
4. Asignifying rupture—undiminished as a rhizome when being severely ruptured, the ability to allow a system to function and thrive

despite local disruption, due to deterritorialising and reterritorialising processes

5. Cartography—described by the method of mapping for orientation from any point of entry within a whole, rather than by the method of tracing that re-presents an abstract route, base structure or genetic axis

6. Decalcomania—forming through continuous negotiation with its context, constantly adaptation through experimentation, enacting asymmetrical active resistance against the organization and constraint

One obvious modern example of a rhizome structure is the internet. Even though the “internet” is an abstract concept, in practice it function much like a rhizome, even to the deterritorialising and reterritorialising processes.

Real rhizomes grow opportunistically, seeking easy access and sustenance. We might consider the rhizome structure and the Deleuze and Guattari article when investigating phenomena such as social networking. We can use some open source software called pajek (<http://vlado.fmf.uni-lj.si/pub/networks/pajek>) to provide a visual representation of such natural networks. And look at the new words you can use!!

MANAGEMENT SYSTEMS

ALFONSO ENRIQUEZ

The upcoming two-day Design of Experiments (DOE) class on March 26 and 27 will help us to reinforce the understanding of quality requirements.

Quality Standards require organizations to measure the product (1) and to calibrate the measuring instrument. Additionally some Standards (2, 3, 4) require a measurement system analysis, and recommend the Gage Repeatability and Reproducibility Study (GR&R).

The MSA manual (5) indicates that there are three acceptable GR&R methods: two based on the Quality Control chart concepts, and the ANOVA method.

Nowadays organizations have the advantage of statistical software packages, such as Minitab (6), which are able to perform the ANOVA calculations in seconds. But still the planning of the GR&R study and the interpretation of the results require knowledge of ANOVA. In the one factor fixed effect model analysis chapter of DOE (7) Montgomery explains that in many measurement instruments the variance of the observation increases as the magnitude of the observation increases, therefore the assumptions of the ANOVA

model for GR&R do not hold for these instruments, an a transformation of the data might be required.

Montgomery also has coauthored a book on GR&R (8), in page 2 they indicate: "Originally, gauge R&R studies were conducted using a tabular method based on ranges and control charts...the range is an inefficient estimator of gage variability... for these reasons R&R studies are now analyzed using ANOVA techniques."

If you want to stay current, sign in for the DOE class on March.

References:

- 1) ISO 9001 clause 7.6
- 2) TS16949 clause 7.6.1
- 3) ASTM E4 item X.2.2
- 4) ASTM E8/E8M item X.2.3
- 5) MSA Manual, , third edition, AIAG March 2002
- 6) Minitab 15, Minitab Inc. 2007
- 7) Design of Experiments, Douglas C. Montgomery, Wiley 2007
- 8) Design and Analysis of Gauge R&R studies, Richard K. Burdick, Connie M. Borror and Douglas C. Montgomery, SIAM 2005.

RE-CERTIFYING AND ASQ CERTIFICATIONS

STEVEN SCHAFER

Out of a total of 8 member(s) whose certifications expired June 2009, 0 will lose their certifications if they do not re-certify by the end of December 2009, 2 member(s) re-certifications are being processed and 6 member(s) completed their re-certifications. **100% re-certification, congratulations all!**

Out of a total of 8 member(s) whose certifications will expire December 2009, 5 will lose their certifications if they do not re-certify by the end of June 2010, 1 member(s) re-certifications are being processed and 2 member(s) completed their re-certifications.

Out of a total of 11 member(s) whose certifications will expire June 2010, 11 will lose their certifications if they do not re-certify by the end of December 2010, 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 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 7 member(s) whose certifications will expire December 2010, 7 will lose their certifications if they do not re-certify by the end of June 2011, 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 915-584-0033. 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://www.asq.org/certification/recertification/rucredits/index.html>

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Potential meeting and dinner schedule

YEAR	MONTH	DAY	TOPIC	SPEAKER	LOCATION
2010	February	17	Lean Manufacturing	Lonnie Wilson	Furr's *
2010	March	26, 27	Design of Experiments (Doug Montgomery)	Doug Montgomery	UTEP
2010	April	21	Total Quality Management (also, Sun Country Science Fair Winners presentations)	Joe Lissberger	Furr's *
2010	May	19	Lean Toyota Production System (also, Sun Country Science Fair Winners presentations)	Tom Nieman	Furr's *
2010	June	16	ISO Registrars (also, Sun Country Science Fair Winners presentations)	Rajesh Tahiliani	Furr's *
2010	July	17	Section Training and Planning Session (Saturday)	Section Chair	Furr's *
2010	August	21	Section Training and Planning Session (Saturday)	Section Chair	Furr's *

* Furr's Family Buffet - 11925 Gateway Blvd W, El Paso, TX (915) 633-6107 [Map to Furr's Family Buffet](#) (near Zaragoza)

*** Cactus Rose Grill 6655 Gateway West El Paso, TX 79925 [Map to Holiday Inn Airport - Cactus Rose Grill](#)

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