 <p>Greater El Paso Section The Global Voice of Quality™</p>	<p><i>Amigo</i> <i>Quality</i> Volume 39 Number 6</p>
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Welcome to the March 2019 issue of the Newsletter, your local provider of information and learning opportunities related to quality professionals.

Notice: The section is actively looking for volunteers willing to serve on the leadership committee. If you are willing to volunteer, please send an email letting us know your willingness to serve to Officers@asq1401.org with a subject of "Willing to serve on the leadership committee."

General Membership Meeting

DATE: Wednesday, March 20, 2019

SCHEDULED TIME: 6:30 P.M to 8:00 PM

LOCATION: DISH Network Manufacturing
1285 A Joe Battle Blvd. El Paso, TX, 79936

NOTE: No skirts, no open shoes please.

TOUR GUIDE:	Sergio Vega	Plant Tour
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THE CHAIR SPEAKS EVARISTO CAMPOS-TORRES

Hello, Fellow Quality Professionals!

I hope everyone is doing well.

Last month we had a great general membership meeting.

We had the opportunity to listen to Mr. Bernie Olivas, Executive Director of the Sun Bowl Association, a non-profit organization. He passionately talked

about the events organized by the association, including the Hyundai Sun Bowl, the WestStar Bank Don Haskins Sun Bowl Invitational, the Sun

Bowl Marathon All-America Golf Classic, the Sun Bowl Fan Fiesta, the FirstLight Federal Credit Union Sun Bowl Parade, and the Academy Sports + Outdoors Sun Bowl International Soccer Tournament. Bernie also talked about the great economic and social impact these events have in El Paso.



He mentioned that the Sun Bowl's mission is to improve quality of life by presenting, through its volunteers, the Southwest's friendliest bowl game and a series of festive events appealing to El Paso's diverse cultural heritage. This is accomplished, without any doubt, through all the events listed above. By the way, some of these events are free to the public.



Here is the ASQ appreciation award that was presented to Bernie Olivas

If you want to learn more about the Sun Bowl Association and the interesting job they are doing, please visit: www.sunbowl.org

Our section continues looking for ways to expand our knowledge of different industries. This month we will have a tour of DISH Network Manufacturing Center. We will be able to see its operation and how lean manufacturing has been implemented throughout its different areas. I'm sure we will find it interesting.

I hope to see you at the meeting on March 20!

Best regards,

Evaristo Campos-Torres

Chair, ASQ Greater El Paso Section 1401

AUTOMOTIVE SECTION

HECTOR LUGO

Thank you to all the participants in this exciting filed and the winner for this month is: From the startups in Silicon Valley to the established original equipment manufacturers (OEMs), drivers and car enthusiasts everywhere are wondering what the future holds for the connected car. How will it change our daily commute? When will we have 5G capability on the road? How will connectivity operate with autonomous vehicles? These are good questions, and only the future will tell.

In the early 2000s, eCall burst onto the scene, offering safety and emergency assistance, while personal navigation devices helped drivers know where they're going and provided welcome silence from backseat drivers. (We can all be thankful for this.) On April 1, 2018, eCall had a breakthrough when the European Union made it mandatory for all new cars sold to include this hardware. What started as a basic cellphone and navigation device now seamlessly integrates over-the-air (OTA) updates, predicting driving behaviors and communicating with other vehicles.

We may not know exactly what the future holds for telematics and the connected car, but what we do know is that it is evolving quickly, so OEMs will have to be agile in their adaptation of new technologies. With the revenue potential for infotainment systems and connected cars, not to mention the thrill of the challenge, you can count on technology providers to continually raise the bar for themselves and the industry.

See you at the meeting!

EDUCATION SECTION

KIM PRIES

The most recent issue of the new *Lean Six Sigma* (isn't this kind of like STEAM in the education business? Science, Technology, Engineering, Arts, Mathematics—let's grab them all!) magazine of the ASQ trots out Failure Mode and Effects Analysis. I see this with *Quality Progress* about

every two to three months. In many articles, they tout the efficacy of the method without ever providing one lick of reasonable evidence that this is, in fact, the case!

I have yet to see an FMEA *ever* account for Black Swan cases. If you need an FMEA to deal with mundane issues that should be managed by effective design/testing and manufacturing/testing, I would suggest you have deeper problems than the tool can possibly solve. FMEA is useless for no other reason than the invalid approach of calculating a magic number called RPN based on the multiplication of three differing ordinal scales. We could throw in the Holmes-Rahe life stress indices for good measure!

I think our time would be better spent concocting tests that liberate problems in our products (a scientific method and one that includes designed experiments) rather than doing the equivalent of waving a dead cat around our heads thirteen times. Rest assured I send a letter to *LSS* indicating my heartburn with publishing cargo cult science.

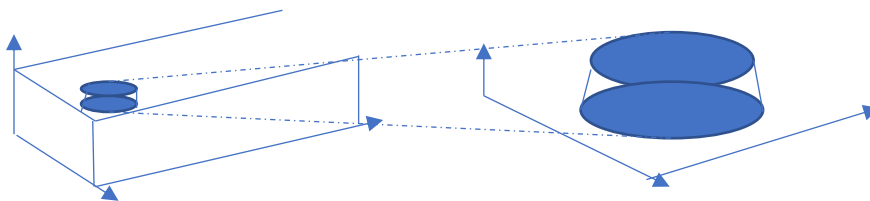
Also note, while I personally BELIEVE the climate is changing, I do not KNOW that. I think we must have curmudgeons who challenge the current wave of climate science in order to keep the work clean.

Check it out!

MANAGEMENT SYSTEMS

ALFONSO ENRIQUEZ

January 2019 issue of the Journal of Quality Technology includes an article by Shi, Apple and Runger¹ that refers to the calculation of the Euclidean distance as part of the visualization of a Lego part.



It is interesting to see how the distance between two points of the Lego $d(p_1, p_2) = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$ is calculated for many small sections of the Lego, and be used to determine the quality of the part.

Suppose we have two points of the Lego $p_1 = (2, 3, 4)$ and $p_2 = (1, 2, 5)$; we may use the simple command in R to find the distance:

```
p1<-c(2,3,4)
p2<-c(1,2,5)
sqrt(sum((p1-p2)^2))
```

The answer in this example is 1.732051, that is the square root of 3, because $(2-1)^2 + (3-2)^2 + (4-5)^2 = 3$.

¹Shi, Zhenyu, Apley, Daniel W., Runger, George C., "Identifying and visualizing part-to-part variation with spatially dense optical dimensional metrology data." *Journal of Quality Technology*, volume 59, January 2019.

RE-CERTIFYING AND ASQ CERTIFICATIONS

STEVEN SCHAFER

Out of a total of 7 member(s) whose certifications expired June 2018, 0 will lose their certifications if they do not re-certify by the end of December 2018, 0 member(s) are in the process of submitting their certifications and 7 member(s) completed their re-certifications.

Out of a total of 4 member(s) whose certifications will expire December 2018, 1 will lose their certifications if they do not re-certify by the end of June 2019, 0 member(s) re-certifications are being processed and 3 member(s) completed their re-certifications.

Out of a total of 11 member(s) whose certifications will expire June 2019, 9 will lose their certifications if they do not re-certify by the end of December 2019, 0 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 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 5 member(s) whose certifications will expire December 2019, 5 will lose their certifications if they do not re-certify by the end of June 2020, 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 <https://asq.org/cert/recertification>

When re-certifying, **always get the most recent Re-certification Journal information.** The lasted Re-Certification Journal is January 2018. 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.** .

Projected Events					
2019	Month	Date	Day	Event	Location
	Mar	20	Wednesday	General Membership Meeting	DISH Manufacturing Plant Tour 1285 A Joe Battle Blvd.
	Apr	10	Wednesday	Leadership Committee Meeting	Good Coffee Restaurant 6099 Montana Ave.
	Apr	17	Wednesday	General Membership Meeting	TBD

2019 Officers/Committee Chairs

<p>Chair: Evaristo Campos-Torres Work Phone: (915) 860-6287 Cell Phone: (915) 929-3142 e-Mail: evaristo.campostorre@dish.com</p>	<p>Vice Chair – Auditing Chair: Mark Aldred Phone: (575) 343-2182 e-Mail: aldredAerospace@gmail.com</p>
<p>Treasurer: Rebecca Diaz Cell Phone: (915) 321-0279 e-Mail: rbkgomez@yahoo.com</p>	<p>Internet Liaison: Jack Vaughn Home Phone: (915) 594-6662 Cell Phone: (915) 549-2014 e-Mail: jvaughn@utep.edu</p>
<p>Secretary: Keith Fong Home Phone: (915) 351-7535 Work Phone: (915) 612-7147 e-Mail: fongk@asme.org</p>	<p>Newsletter: Kim Pries Phone: (915) 525-1724 e-Mail: jpries1@elp.rr.com or khpries@gmail.com</p>
<p>Immediate Past Chair – Nominations Chair Sergio R. Vega Work Phone: (915) 860-6257 Cell Phone: (915) 276-1130 e-Mail: sergio.vega@dish.com</p>	<p>Refresher Classes/Workshops Chair: Hector Lugo Phone: (915) 208-2502 Home Phone: (915) 581-8091 e-Mail: h7tutor@hotmail.com</p>
<p>Membership Chair: Vacant Cell Phone: e-Mail:</p>	<p>Business Student Section: Vacant Cell Phone: e-Mail:</p>
<p>Publicity Chair: Morris Hendricks Phone: (419) 769-0121 e-Mail: Morrishe@aol.com</p>	<p>Partners In Education: Vacant Cell Phone: e-Mail:</p>
<p>Recertification Chair: Steven Schafer Home Phone: (915) 241-4780 e-Mail: spikequate@sbcglobal.net</p>	<p>Asst Newsletter/Recert Chairman: Jack Vaughn Home Phone: (915) 594-6662 Cell Phone: (915) 549-2014 e-Mail: jvaughn@utep.edu</p>
<p>Education: Alfonso Enriquez Work Phone (915) 231-4571 e-Mail: alfonso.enriquez@att.net</p>	

