



Greater El Paso
Section
The Global Voice of Quality™

Amigo
Quality
Volume 40 Number 4

Welcome to the January 2020 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 eager 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."

LC Meeting

DATE:	Wednesday, January 15, 2020
SCHEDULED TIME:	6:30 PM to 8:30 PM
LOCATION:	Good Coffee Restaurant 6101 Montana Ave, 79925

General Membership Meeting

DATE:	Wednesday, January 29, 2020
TOPIC:	Topic: The KnowPitch App – A smartphone app to help people sing better and the journey to create the app.
PRESENTER:	Eric Freudenthal
SCHEDULED TIME:	6:30 PM to 8:30 PM
LOCATION:	Hilton Garden Inn, 111 W. University Ave, El Paso, TX

LC Meeting

DATE:	Wednesday, February 12, 2020
SCHEDULED TIME:	6:30 PM to 8:30 PM
LOCATION:	Good Coffee Restaurant 6101 Montana Ave, 79925

THE CHAIR SPEAKS
EVARISTO CAMPOS-TORRES

Happy New Year Fellow Quality Professionals!

I hope everyone has enjoyed this holiday season in the company of family and friends.

We had a very productive and successful 2019. Month by month we had the opportunity to attend either site tours or meetings with excellent guest speakers. The following is a summary of the events we had last year:

Tours:

- Center for the Advancement of Space Safety and Mission Assurance Research (CASSMAR) at UTEP
- DISH Manufacturing
- Toro Manufacturing
- Toro Distribution
- Freeport-McMoran Copper Rod and Refinery

Guest speakers:

- Bernie Olivas – Organizing the Sun Bowl
- Mark Aldred – Quality engineering in the aerospace industry
- Lonnie Wilson - Sustaining Workforce Engagement: How to Ensure Your Employees Are Healthy, Happy, and Productive
- Roger Tonneman - Quality in Semiconductor manufacturing
- Keith Fong - The Harmonized AIAG-VDA Failure Mode and Effects Analysis: What has changed?

Each of these was a great experience for all of us who were able to attend. I hope that this year we continue offering events that contribute to the professional growth of our local Quality community. Please let us know if you have any suggestions.

We finished last year with our traditional Christmas dinner at Carlos & Mickey's. Members of our chapter and their families attended this event. We had a very good time and enjoyed delicious traditional Mexican food.

I want to take the opportunity to thank the 2019 officers that helped us to maintain the value of our organization.

This year we will have some changes in our leadership committee. Mr. Keith Fong accepted to serve as the Treasurer, Mr. Hector Lugo accepted to assume the Vice Chair role and Morris Hendricks agreed to serve as the Secretary. Jack Vaughn volunteered to serve as Auditing Chair. Thanks to them and the rest of the leadership committee for their commitment.

On January 29th we will have our first general membership meeting of the year. We will have UTEP professor Mr. Eric Freudenthal as our guest speaker. He is professor in Computer Science and will present and demonstrate an application called “KnowPitch” that help singers correct their pitch. It provides a way for a singer to hear his or her own voice. This application is currently in beta.

I hope to see you there!

Best regards,

Evaristo Campos-Torres

Chair, ASQ Greater El Paso Section 1401

AUTOMOTIVE SECTION HECTOR LUGO

Thank you to all members for your wishes on this 2020 year and the same for all of you. The winner of your contribution is: The commercialization graph of the global advanced driver-assistance systems (ADAS) market has seen exponential growth lately—a feat attributed primarily to the stringent regulations about passenger and pedestrian safety. Greater awareness subject to the significance of safety systems in vehicles and the subsequent rise in road-safety concerns has brought about numerous changes in the sales of driver-monitoring systems in recent times.

According to the World Health Organization, annually, over 1.35 million people lose their lives in road traffic crashes. Road traffic accidents

also cost many countries approximately 3% of their respective gross domestic product. To lessen this impact, the 2030 Agenda for Sustainable Development has established an ambitious target of cutting the global number of road crash injuries and deaths by 50% by 2020.

To showcase their commitment to this agenda, many government organizations across the world are introducing favorable regulations that further support and promote the integration of safety equipment and technologies in vehicles. Today, customers look for an automobile brand's ability to provide swift, seamlessly integrated passenger and driver experiences. Therefore, automotive companies cater to these demands by making the driving experience smoother through sophisticated ADAS.

See you at the meeting!

EDUCATION SECTION

KIM PRIES

For those offended by my position on some of the quality tools, consider these:

- Why are you defending an ideology rather than finding something better?
- I am more than willing to assess any credible evidence that the tool works (not personal experience)
- Quality tools seem to follow the Pareto principle, 80% of the tools create 20% of the results, 20% of the tools generate 80% of the results
- At least two of the tools ALWAYS produce meaningful results when applied judiciously:
 - Statistical Process Control
 - Designed Experiments

I did my share of FMEA documents when working for an automotive supplier because that was defined as a requirement by both customers and the standards organization while never providing any credible basis for investing a tremendous amount of time in so little result. The documents are impressive; the results never are.

If QFD, FMEA, and some of the other hand-waving tools were so useful, we could virtually eliminate the need for expensive testing! Try passing that by your customer.

Let's examine some examples of the same approach in education.

Ideological Item, "works" irregularly	A real, working item with supporting data
Project-based learning	Direct instruction (Engelmann)
Constructivism	Cognitive Load Theory (Sweller et al.)
Dismissal of memorization	Spaced repetition (Roger Craig, Arthur Chu, and Jeopardy; Hal Pashler at UCSD)
Unit Design	Interleaving (Roediger & McDaniel, WUSTL)
SIOP	Direct instruction, again (U.S. Government What Works Clearinghouse)
Sports	No demonstrated pedagogical value
Competitions	Cooperation (Marshall Rosenberg)

If being professional means pushing an ideology, then I guess I am a proud amateur (doing it for the love of it if you look at the root of the word). In business, my concern was selling a quality product, based on testing, to a customer. In education, my interest is to provide an environment where learning thrives.

Check it out!

MANAGEMENT SYSTEMS

ALFONSO ENRIQUEZ

Optimal Quality

Industrial Engineers, MBAs, and others study methods to optimize the process and quality; some of the optimization techniques are grouped under the subject Operations Research. The most known way is the Simplex method for linear equations. But it is frequently the case that the equations are nonlinear, and therefore, we use the SIMPLEX method for nonlinear equations.

With plastic extrusion, we want to optimize the shape of the plastic profile, and the equations describing the behavior of the melt involve nonlinear equations for energy, mass transfer, momentum transfer, the optimization problem is stated as follows:

Minimize the speed difference subject to

- conservation of mass
- conservation of momentum
- conservation of energy
- relationship between stress and viscosity

Nobrega et al.¹ describe in detail the application of the SIMPLEX method to solve the optimization problem described above. There are currently several software packages using this, or a similar algorithm to design plastic extrusion dies. The objective is to obtain the shape of the dies and transition adapters to get the profile that the customer is expecting.

¹Nobrega J.M., Carneiro J.S, Oliveira P.J. Pinho F.T. "Flow Balancing in Extrusion dies for Thermoplastic profiles," Intern. Polymer Processing XVIII (2003), Hanser Publishers, Munich

RE-CERTIFYING AND ASQ CERTIFICATIONS

STEVEN SCHAFER

Out of a total of 5 members whose certifications expired December 2019, 4 lost their certifications since not re-certify by the end of June 2020, 0 members re-certifications are being processed and 1 member(s) completed their re-certifications.

Out of a total of 9 members whose certifications will expire June 2020, 8 will lose their certifications if they do not re-certify by the end of December 2020, 0 members re-certifications are being processed and 1 member completed their re-certifications.

Out of a total of 6 members whose certifications expired December 2020, 6 will lose their certifications if they do not re-certify by the end of June 2021, 0 members 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 7 member(s) whose certifications will expire June 2021, 7 will lose their certifications if they do not re-certify by the end of December 2021, 0 member(s) re-certifications are being processed and 0 members 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 spikequate@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 lastest Re-Certification Journal is November 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).

Projected Events						
Year	Month	Date	Day	Time	Event	Location
2020	January	15	Wednesday	6:30-8:30 pm	LC Meeting	Good Coffee Restaurant
2020	January	29	Wednesday	6:30-8:30 pm	General Membership Meeting	Hilton Garden Inn, 111 W. University Ave, El Paso, TX
2020	February	12	Wednesday	6:30-8:30 pm	LC Meeting	Good Coffee Restaurant
2020	February	19	Wednesday	6:30-8:30 pm	General Membership Meeting	TBD

2020 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 – Hector Lugo Phone: (915) 208-2502 Home Phone: (915) 581-8091 e-Mail: h7totor@hotmail.com</p>
<p>Treasurer: Keith Fong Home Phone: (915) 351-7535 Work Phone: (915) 612-7147 e-Mail: fongk@asme.org</p>	<p>Auditing Chair - Internet Liaison: Jack Vaughn Home Phone: (915) 594-6662 Cell Phone: (915) 549-2014 e-Mail: jvaughn@utep.edu</p>
<p>Secretary: Morris Hendricks Phone: (419) 769-0121 e-Mail: Morrishe@aol.com</p>	<p>Newsletter: Kim Pries Phone: (915) 525-1724 e-Mail: jpries1@elp.rr.com or khpries@gmail.com</p>
<p>Immediate Past 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: h7totor@hotmail.com</p>
<p>Membership Chair: Morris Hendricks Phone: (419) 769-0121 e-Mail: Morrishe@aol.com</p>	<p>Recert Chairman: Jack Vaughn Home Phone: (915) 594-6662 Cell Phone: (915) 549-2014 e-Mail: jvaughn@utep.edu</p>
<p>Publicity Chair: Morris Hendricks Phone: (419) 769-0121 e-Mail: Morrishe@aol.com</p>	<p>Nominations Chair: Angel Urbina Work Phone: (915) 231-7765 e-Mail: angel.urbina@toro.com</p>
<p>Recertification Chair: Steven Schafer Home Phone: (915) 241-4780 e-Mail: spikeguate@sbcglobal.net</p>	<p style="color: red;">Business Student Section: Vacant Cell Phone: e-Mail:</p>
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