



System Failures Lead to Better Designs

Anthony Matta, Chapter President Elect, Sandia Nat'l Labs



First, let me graciously thank you for allowing me to be your incoming President of the Enchantment chapter for the 2017 calendar year. This is an impressive and notably recognized chapter throughout INCOSE, and across the world. This is due to your commitment to excelling in the field of system engineering and enhancing the understanding and application of good systems engineering within your spheres of influence.

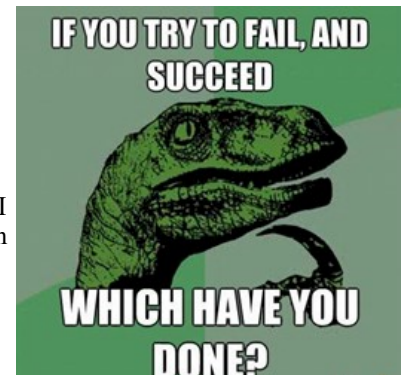
As I partner with our current president Ron Lyells to wrap up our end of year chapter Circle Award activities, and our past president, Rick Dove, for the Socorro Systems Summit, I have been contemplating how I can prepare myself for taking the reins of such a high quality organization the Enchantment Chapter has become. The only way that this can be accomplished is by a strong partnership among the Board of Directors and each of you in the membership. I would like to spend the incoming year focusing on two efforts:

- 1) Promoting and recognizing the daily efforts and successes in Systems Engineering that each of you face in your everyday jobs and lives.
- 2) Eliciting help to support the Board activities, such as chapter events and activities.

Through this effort, our network of friendships and professional connections can strengthen to develop new ideas, fresh opportunities, and more diverse people than our chapter has ever reached before.

I challenge each of you to start coming up with new ideas and desires that you would like to lead, document, or try out for our chapter. The best systems engineers in the world all have failure stories, and so I look forward to embracing our lessons learned just as much as our successes. Some new ideas might work and some might not; either way we will grow. Let's figure out what does and doesn't work so that we can move into the future. As Ron Lyells had mentioned in the previous newsletter, we now have our [Twitter](#) account, which is setup so that any of you may reach out and share some of your ideas. You will also have the opportunity to find us on LinkedIn and add yourself as an INCOSE Enchantment Chapter member. I welcome each of you to reach out to me directly on with any feedback, at my email armatta@sandia.gov or you may add me on LinkedIn.

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Not For Women Only

Heidi Hahn, Los Alamos National Labs

Just a few links to interesting things this time.

From TED, [Watch:](#) *How women wage conflict without violence.* Filmmaker Julia

Bacha shares stories of effective nonviolent resistance, including eye-opening research on the crucial leadership role that women play. Nonviolent campaigns are 100 percent more likely to succeed than violent ones. www.ted.com/talks/julia_bacha_how_women_wage_conflict_without_violence

From TED, [Read:](#) *TEDWomen 2016 – It's About Time.* This conference, in San Francisco, October 26–28, will explore how time and attention shape our lives, in a three-day program with speakers from the

worlds of science, politics, psychology, the arts and more. I can't encourage you to attend, as it conflicts with the Socorro Systems Summit, as well as the EWLSE dinner gathering organized by Regina Griego; but I expect that some, if not all, of the 18 minute talks will be available for download shortly after. <https://tedwomen2016.ted.com>

From Engineering News Record, [Read:](#) *Engineering Educators Elect First Black Woman President-Elect.* Bevlee Watford, associate dean for academic affairs at Virginia Tech's College of Engineering, has become the first black woman to be president-elect of the American Society for Engineering Education. Congratulations, Bev! www.enr.com/articles/39806-engineering-educators-elect-first-black-woman-president-elect

From the National Science Foundation, [Read:](#) 'Belonging' can help keep tal-

ented female students in STEM classes. www.nsf.gov/discovers/disc_summ.jsp?cntn_id=189603&org=NSF&from=news

From Harvard Business Review, [Read:](#) *Why Do So Many Women Who Study Engineering Leave the Field.* <https://hbr.org/2016/08/why-do-so-many-women-who-study-engineering-leave-the-field>

From Intel, [Read:](#) *Decoding Diversity: The Financial and Economic Returns in Tech.* This June 2016 report provides the first of its kind analysis, quantifying the economic impact of improving diversity specifically for the tech sector.

The report has data from 167 U.S. companies and concludes that increased representation of African-American, Hispanic and female employees has significant economic implications, driving productivity, growth and revenue gains in the technology sector. www.intel.com/content/www/us/en/

EWLSE Dinner Gathering at the Summit

Regina Griego, Sandia National Labs

There will be a dinner gathering for Empowering Women as Leaders in Systems Engineering (EWLSE) at the Socorro Summit, beginning at 6:30 PM, Friday, October 28th at Socorro Springs Brewery. We enthusiastically invite Summit attendees to join in a dialogue where we will ask participants to share their stories, exchanging tips and insights about navigating the systems

engineering leadership journey, with particular emphasis on the Women Systems Engineer brand of leadership.

We ask participants to sign up in advance; there is a cost of \$15 to cover dinner. People are asked to arrive at 6:30 PM with dinner being served at 6:45 PM and sharing starting thereafter.

Don't miss the conversation!

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