

# NEWSLETTER



2008, 2012, 2017  
President's Award  
for Most  
Outstanding Chapter



2004-14



2015-17

## Annual Townhall Meeting

*Another opportunity for the members to network with the Board of Directors*

The Los Angeles Chapter is off and running into 2019 with the same enthusiasm and sense of purpose that made 2018 another award-winning year. The Chapter conducted its annual townhall meeting on January 8, 2019 at the Buco Di Beppo in Redondo Beach. The meeting featured the induction of officers for the 2019 Board of Directors, the recognition of people who had contributed to the success of the Chapter, and an open forum during which members could ask questions of, and make suggestions to, the Board of Directors.

The elected officers for 2019 are:

- President – Mark L. McKelvin Jr., The Aerospace Corporation
- Vice President – Mark TenEyck, Dassault Systemes
- Immediate Past President – Rick Hefner, California Institute of Technology
- Secretary – Phyllis Marbach, The Boeing Company (Retired)
- Treasurer – Lin Yi, NASA Jet Propulsion Laboratory
- Programs Committee Chair – Nazanin Sharifi, Northrop Grumman Corporation
- Membership Chair – Karen Grothe, INCOSE-LA, ASEP
- Systems Engineering Education Chair – Dorothy Benveniste, The Boeing Company
- Communications Committee Chair – Scott Birtalan, Northrop Grumman Corporation
- Ways and Means Chair – Stephen Guine, Northrop Grumman Corporation.

*(See "Town Hall Meeting" on page 9)*

## The President's Corner

*By Chapter President, Dr. Mark McKelvin*

Greetings! Please join me in welcoming the 2019 Board of Directors. First, I would like to extend my appreciation and gratitude for the tremendous efforts from the members of the 2018 Board of Directors, appointed officers, members, and organizations we have interacted with over the 2018 year. I would especially like to thank our Past President, Dr. Rick Hefner, for paving the way to a transition of new leadership for 2019.

As I take on the leadership of the INCOSE Los Angeles Chapter, I am humbled by the opportunity to lead an outstanding organization of volunteers that are committed to educating and promoting the systems engineering discipline. INCOSE Los Angeles is one of the leading local chapters within INCOSE as evident by achieving Platinum or Gold Chapter Award status since 2003, along with receiving the President's Award of Outstanding Chapter three times since 2000. To maintain this level of achievement requires significant involvement from volunteers within the organization.

I am equally enthusiastic about embracing new ideas and approaches to help further educate and promote systems engineering through the efforts of our Chapter. To help identify our goals and influence the strategy for our Chapter this year, I distributed a survey to the meeting attendees so that the leadership can gain additional insight into the value of events and activities that the Chapter provides to its members. There were 17 respondents to the survey. When asked which events or benefits of the Chapter that are used or likely to be used, Chapter meetings topped the list.

*(See "President's Corner," continued on page 9)*

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## The Vision Statement: Step 1 for a Project, Though Oft' Overlooked February Speaker Meeting

The February Speaker Meeting will be held on February 12, 2019, at The Aerospace Corporation facility in El Segundo.

### ABSTRACT:

Many keynote speakers, forums, and papers have addressed the challenges facing the systems engineering profession – challenges brought on by the explosion in computer and internet capabilities and in the speed with which data can be transmitted, unchecked. Our profession has responded with new concepts, such as System of Systems, and with new tools and methodologies, such as MBSE and Agile. This presentation addresses one aspect of the challenge, that aspect being using a vision statement as a tool to facilitate the proper initiation of a project in a manner to help ensure quality management. The “vision,” statement is the proverbial plumb line or first furrow. Once a part of the discipline (NCOSE and Caltech, circa 1994), the subject is not explicitly addressed in the current Systems Engineering Handbook. The intent of this presentation is to review the value of such statements and to review their attributes, to cite examples, good and bad, and to consider how the changes in technology in the last 20 years might change them.

### BIOGRAPHY

Jorg Largent's career spans 55 years and ranges from the enlisted ranks of the United States military to Lead Systems Engineer on the B-2. In between he matriculated at the Georgia Institute of Technology. After completing his formal training, he worked in orbital mechanics on the Apollo Program. At the close of the Apollo program Jorg became a Flight Test Engineer, primarily on the CH-46E, the B-1A and the B-2. After he left Flight Test he moved on to liaison engineering and then to systems engineering on the B-2 program and special projects.



Jorg Largent

After Jorg retired from Northrop Grumman, he dabbled in railroading and worked as a conductor on the Sierra Railroad. He has also mentored high school students, served as a judge at the California State Science Fair, has spoken on systems engineering, and has become active in INCOSE working groups, including Transportation, Very Small Entity, and Systems Engineering Quality Management. He has been particularly busy as a writer for and the Editor of the INCOSE-LA *Newsletter*. At the 2016 International Symposium Jorg was given an award for his contributions to and for his furtherance of the systems engineering profession.

### DETAILS

#### VENUE:

The Aerospace Corporation  
El Segundo, California

#### SCHEDULE:

5:15-5:30 Sign-in/Registration  
5:30-6:00 Networking/Refreshments  
6:10-6:20 Introduction  
6:20-6:30 WG Presentation (TBD)  
6:30-7:30 Guest Speaker Presentation

**DATE:** Tuesday, February 12, 2019

**COST:** Free for members, \$10.00 for non-members; light refreshments will be provided

#### REGISTRATION:

<http://www.tinyurl.com/LA2019Feb>

### DIRECTIONS TO THE AEROSPACE CORPORATION

Location: between Imperial Highway and El Segundo Boulevard (north to south), between the 405 Freeway and Sepulveda Boulevard (east to west).

From the San Diego (405) Freeway heading SOUTH:

1. Take the exit towards El Segundo Blvd.
2. Turn Left onto S La Cienega Blvd.
3. Take the 1st Right onto W El Segundo Blvd.
4. Take the 2nd Right onto North Aviation Blvd.
5. Building D8 will be the third building on the right, just past the discount bakery.

From the San Diego (405) Freeway traveling NORTH:

1. Take the El Segundo Blvd exit, Exit 44.
2. Turn Left onto W El Segundo Blvd.
3. Turn Right (North) on N Aviation Blvd.
4. Building D8 will be the third building on the right, just past the discount bakery.

From the 105 Freeway traveling WEST:

1. Take the exit towards 405 South.
2. Before getting onto the 405 Freeway, take the El Segundo Blvd exit.
3. At the bottom of the ramp, turn left (west).
4. Turn right on Aviation Blvd.
5. Building D8 will be the third building on the right, just past the discount bakery.

The facility is the third building from the corner of Aviation and El Segundo, just north of the discount bakery. Only the southern-most gate of the facility is open. Identify yourself to the security guard as attending the INCOSE meeting. You can park where Security directs and enter through the lobby at the center of the building near the flag poles. Knock on the first of the double doors, and someone will open the door for you. The handicap ramp is on the north side and can be reached by driving all the way around the back of the building. Inform the security guard if you plan to use that ramp.

## Not a member? Join INCOSE!

Learn more about becoming a member by going to the INCOSE homepage at <https://www.incose.org/>

### INCOSE-LA Chapter NEWSLETTER

Vol. 17: Issue 1, February — March 2019

## ***The Aerospace Corporation's Fourth System Engineering Forum: Leveraging MBSE Across the Enterprise***

This event, sponsored by The Aerospace Corporation's Corporate Chief Engineer's Office, focuses on leveraging Model-Based Systems Engineering (MBSE) across the space enterprise, fulfilling the digital engineering vision and contributing to mission success. It includes all enterprise stakeholders: customer, provider, supply chain, vendors and academia.

This Systems Engineering Forum capitalizes on three previous forums to bring together representatives at all levels to share their experiences, lessons learned, and challenges in MBSE — applying MBSE to space systems, and addressing it within the larger scope of their enterprise.

This event will feature tutorials, keynote, stakeholder panels, plenary sessions, workshops, and vendor exhibitions highlighting services and products through live demonstrations and presentations at both the unclassified and classified level. Tracks include vendor presentations against use cases, government service/agency track on Model-based enterprises, industry presentations on enterprise examples, and professional societies on their roadmap of model-based efforts. These will address key concepts such as the creation of digital threads, use of digital twins, and use of digital artifacts from the authoritative source of truth. Of special interest is a presentation, "INCOSE Transformation," by Troy Peterson. Troy's presentation will be on Thursday February 14, 2019.

### **DETAILS:**

#### **VENUE:**

The Aerospace Corporation  
El Segundo, California

#### **SCHEDULE:**

**DATE:** Tuesday, February 12, through Thursday February 14, 2019

**TIME:** this is an all-day event, starting at 8:00 a.m.

**COST:** Varies, information available on the website

#### **REGISTRATION:**

<https://aerospace.org/events/systems-engineering-forum>

Interested in learning about  
**job opportunities for systems engineers?**

Looking for a talented  
**systems engineer for your project?**

INCOSE members can learn about career opportunities and employers can learn about talented systems engineers at the INCOSE

Systems Engineering Career Website:

<https://incose.careerwebsite.com/>

## **Western States Regional Conference September 13 – 15, 2019**

The Second Annual Western States Regional Conference (WSRC) of the International Council on System Engineering (INCOSE) will take place on Friday through Sunday, September 13 – 15, 2019, at Loyola Marymount University in Los Angeles California (LMU). LMU is located just north of the Los Angeles Airport (LAX) on a scenic bluff, overlooking the Marina Del Rey and the Pacific Ocean.

Conference attendees will be able to take a free shuttle from LAX to The Renaissance Hotel and a conference shuttle will get you the three short miles to LMU from there.

The call for abstracts will be sent out by the end of January and will be available on the INCOSE-LA website ([www.incose-la.org](http://www.incose-la.org)).

The WSRC Technical Program is planned to include presentations, panel discussions, and workshops/tutorials. The opening plenary is expected to be mid-day Friday, perhaps during lunch, with tutorials and/or workshops in the afternoon. The conference will include an opportunity to take the SEP paper exam. These plans are subject to change, and we expect to post the technical program by the end of May.

Saturday, September 14, and Sunday, September 15, will have plenary speakers, presentations and panel discussions from 8 a.m. until 5 p.m. Saturday will be the Systems Engineering Professional Development Day which means live transmission of selected presentations and the keynote speaker to remote sites. Saturday evening an event dinner will be held at the Renaissance Hotel with entertainment or a keynote speaker. Between Saturday's presentations and dinner is an opportunity for networking with hors d'oeuvres.

The Los Angeles Chapter is hosting this second annual conference. Following in the footsteps of the highly successful conference hosted by the Wasatch Chapter in 2018, this conference is intended to serve the systems engineering communities from the Front Range in Colorado to the Pacific Coast.

The committee is very happy to provide this conference for our western chapter members and invited guests. We hope you will save the date and plan to attend to keep your systems engineering practices current, learning about leading edge practices and solutions to challenges the technical community is facing.

So start dusting off good ideas and experiences that would benefit your fellow systems engineers. Presentations are the high-value item to the conference, providing practicing system engineers to hone their skills. There is an old adage that the best way to really learn something is to teach it.

## **Western States Regional Conference Take Two in 2019**

## The 23rd. Annual Ground System Architectures Workshop (GSAW)

### Building the Capacity of NexGen Technology Professionals Through STEM Programs

By Judy Kemer

The 23rd annual Ground System Architectures Workshop (GSAW) provides a forum for the world's space-related ground system experts to collaborate with other ground system users, developers, and researchers through tutorials, presentations, working groups, panel discussions, and technical exhibits.

In 2018, GSAW sponsored its inaugural special evening session devoted to Science, Technology, Engineering, and Math (STEM) educational programs that leverage ground systems architecture and systems engineering concepts. The well-attended session piqued interest along a cross-cut of educators, students, and industry professionals and garnered the support and enthusiasm that paved the path for this year's follow-on GSAW 2019 special STEM session on Wednesday evening, February 27, 2019.

#### Science, Technology, Engineering, and Math (STEM) Driving the Future of Ground Systems

Special Evening Session February 27, 2019,  
starting at 5:30 p.m.

**Sponsored by GSAW**

Interested in the full workshop? For details go to:  
<http://gsaw.org/>

The first half of the session will feature presentations by students ranging from high school to graduate level and by professionals and STEM educators from many sectors of the economy. They will describe their unique journeys and experiences with STEM education. They will provide examples of current hands-on STEM program curricula that range from the realms of Extreme Low Earth Orbit to Deep Space, and incorporate data analytics, machine learning, engineering disciplines, and environmental applications to help solve real-world, societal problems. The intent of this portion of the session is to demonstrate the successes and challenges of hands-on STEM programs. Program participants will highlight program successes in presentations that describe the benefits and opportunities they have realized, the knowledge and skills obtained, projects they have contributed to, and how the programs have shaped their academic and professional goals. STEM educators will present current challenges faced in establishing successful and sustainable STEM programs, including the development of:

- 1) effective socialization of programs to schools, organizations, teachers, and students,
- 2) educator and organizational buy-in and participation,
- 3) community involvement and attracting ample and sustainable resources,
- 4) the ability to reach and involve diverse student populations, and,
- 5) Train-the-Trainers programs.

A panel will follow a short break to begin the second half of the session and will draw upon professionals across industry, government, and academia. Panelists will come from the International Council on Systems Engineering – Los Angeles Chapter, the Society of Women Engineers, Seton Hall University, George Washington University, Embry Riddle University, Auburn University, the University of Southern California, and other high school and university programs, as well as from industry. The panel will provide an opportunity for discussion of next steps to address challenges, improve collaborative methods, and strengthen the role science and engineering professionals play in fostering continued innovation and interest in STEM focused educational programs. The overarching goals are to:

- 1) highlight the diverse programs and technologies in STEM programs,
- 2) innovate methods to socialize and sustain STEM programs and resources,
- 3) foster the lines of communication in an effort to cultivate STEM educational programs, and
- 4) encourage and incentivize continued support for these programs to offer the next generation of young professionals unparalleled hands-on applications and training opportunities.

## STEM Opportunities Reach Out to the Next Generation

#### Particulars:

**Date:** Wednesday, February 27, 2019

**Time:** 5:30 p.m. – 8:30 p.m.

**Refreshments:** hearty refreshments will be provided before the presentations

**Location:** Renaissance Los Angeles Airport Hotel, 9620 Airport Boulevard, Los Angeles, California

**Cost:** There is no charge for the meeting, but there is a charge for parking (discounted GSAW rate)

**Sponsored by:** Ground System Architectures Workshop (GSAW 2019)

#### Co-hosting Organizations:

- The Los Angeles Chapter of the International Council on Systems Engineering
- Society of Women Engineers
- University of Southern California Center for Systems and Software Engineering

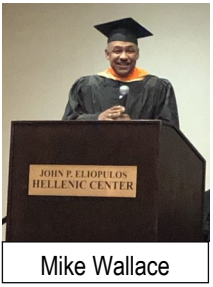
## Peer review: rigor? Or rigor mortis?

Title of an article by Vytautas A. Bankaitis, published July 10, 2014. by PubMed Central® a.k.a. the National Center for Biotechnical Information

"peer review" has morphed into "peer agree"  
Heard over the "Facebook watercooler." ;-)

Nature gives us many of our features,  
but she lets us pick our own teeth.  
Marion Davies

## California State University Long Beach Commencement Address



Mike Wallace, 2014 President of the Los Angeles Chapter, gave the keynote address to the California State University, Long Beach, engineering graduation ceremony at the Antelope Valley campus. Mike has been an activity member of the Chapter, a leader of systems engineering with the Raytheon Corporation, and a champion of the profession in industry and academia. Mike gave a motivating and encouraging speech [necessarily abridged, below – Ed.] that addressed the opportunities that awaited the graduates.

Mike opened with an acknowledgement of the honor of the occasion and then noted the work required by the students to the accomplishments of the students. He asked:

Do you realize that you have defined a path for greatness?

- To change the world
- To breathe vision into existence
- To help companies succeed
- To do your own startup
- To raise the bar in STEM education?

Mike used his own experience so that the students would know that “I can do this.” He shared, “...three things that I wish someone had shared with me earlier on this journey--three things that I have learned to be true regarding my career growth and development in engineering.” These three things don’t consist of any mathematical formulas or equations, but consist of a fundamental approach for helping you with your careers. In the Human Resources world, they are known as the soft skills, nonetheless, they are necessary! Let’s just say that these are the **ABCs** of a successful engineering career!

### ***The First Letter is “A” – Which stands for Acquiring Knowledge***

Mike noted that the degrees the students earned were noteworthy accomplishments, and yet only a beginning. “In order for your skills to remain viable in this emergent technological era, you must continue to update your education in your profession.” He illustrated the importance of this point with a summary of the growth in technology over the past fifty years.

### ***The Second Letter is “B” – Which stands for Building Relationships***

Mike discussed the value of two types of relationships: networking and obtaining a mentor. The benefits of networking allows one to acquire new business leads, and provides the best way for to land new job opportunities. Regarding mentors, Mike noted that mentors are excited about the mentee and his or her talent, taking special care in encouraging and developing the mentee’s skills, even admonishing, if need be.

Solenopsis (Formicidae) Pareto Principle:  
Tech research on fire ant colonies discovers that  
30% of workers do 70% of the work  
Georgia Tech Alumni Magazine, Fall 2018

### ***The third and last Letter is “C” – Which stands for Communication***

This is an area where engineers tend to shy away from. No doubt, your education experience has helped shape and developed you to be technically savvy, but— gone are the days of the engineer being the silent partner or collaborator. One thing you will soon learn is that honing in on and developing your soft skills are just as critical to having a successful engineering career as being a technical expert.

Mike opined that the “soft skills (effective communication, including, written, spoken, listening and translating) are all very important for career progression and being the dreamers, the over-achievers, the ones who won’t settle for mediocracy, the ones who want to retire as the superstar, the leader, the visionary.

Mike concluded by summarizing his encouragement for the students and a challenge to, “...go out there, spread your wings, soar like an eagle, and apply these ABC’s.”

### ***I touch the future. I teach.***

If I can get some student interested in science, if I can show members of the general public what's going on up there in the space program, then my job's been done.

Christa McAuliffe, Astronaut on the Space Shuttle Challenger

## California State University Long Beach College of Engineering Brainstorming Meeting

By Systems Engineering Training Director, Dorothy Benveniste

The Chapter is sponsoring an online brainstorming session to support the California State University Long Beach College of Engineering on innovative ways to match our systems engineering skills and experience to the needs of engineering students in our local communities.

On Friday, March 1, 2019, 1:00–2:00 p.m. Chapter members are invited to a virtual brainstorm meeting with the director of the college to explore innovative ways to match our systems engineering skills and experience with the young, inquisitive minds.

The Global Meet address is:

[https://incose.pgimeet.com/INCOSE\\_GMTen](https://incose.pgimeet.com/INCOSE_GMTen)

The access number: 1-719-234-7872

The guest passcode: 134-984-9704

First-semester freshmen entering engineering have the chance to enroll in the Beach Engineering Student Success Team (BESST). The mission is to help students succeed by supporting them academically, developmentally, and socially. The goal of BESST is to increase the success rate of all College of Engineering students, specifically those from diverse backgrounds and with greatest need.

As engineers, we love to design, invent, share our knowledge with people and inspire and energize engineering students to learn and grow their knowledge. Let’s help the young, inquisitive engineering minds right in our own back yard to succeed. Please reach out if you have any questions to our Systems Engineering Training Director, Dorothy Benveniste, at [djbenven@ca.rr.com](mailto:djbenven@ca.rr.com).

## INCOSE-IA Chapter NEWSLETTER

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Looking for a career change to a top  
Glassdoor rated company?  
Come join us!

We are looking for talented engineers across a number of disciplines to join our teams in our Bellevue, WA and Brea, CA locations. Check out our careers (at [base2s.com/about-us/careers/](https://base2s.com/about-us/careers/)) to explore our current openings in southern California and the Pacific northwest.



### Loyola Marymount University Graduate Engineering Programs

LMU offers a variety of graduate engineering programs that can be customized to meet the needs of working professionals.

MS in Systems Engineering  
MS in Electrical Engineering  
MS in Mechanical Engineering  
MS in Civil Engineering  
MS in Healthcare Systems Engineering  
MS in Computer Science  
MS/MBA Dual Degree

Check us out at [cse.lmu.edu](https://cse.lmu.edu)

Claire Leon, Ph.D

[claire.leon@lmu.edu](mailto:claire.leon@lmu.edu)

310-338-7878

[cse.lmu.edu](https://cse.lmu.edu)

## Caltech

Executive education solutions to the challenges  
faced by today's technology-based organizations

Public Programs — Winter 2019

Model-Based Systems Engineering

Project Management

Predictive Analytics

Advanced Analytics

Deep Learning with TensorFlow

Business Analysis

To enroll, or to learn about other  
Caltech-quality opportunities, go to  
<https://ctme.caltech.edu>

Contact us at 626.395.4042 to bring a  
customized course to your company

### Get Your Message Out We Can Help

#### ARE YOU LOOKING FOR EXPOSURE?

Did you know that INCOSE-LA offers a wide range of options for your business to gain exposure from advertisements or sponsorships? Options range from Platinum sponsorships for conferences hosted or co-hosted by the Chapter to monthly speaker meetings and to various sized advertisements in our *Newsletter*. If you are interested please contact the Chapter's Vice President, Mark TenEyck, at [mteneyck11@gmail.com](mailto:mteneyck11@gmail.com) or the Chapter's Sponsorship Manager, Nazanin Sharifi, at [n.sharifi77@gmail.com](mailto:n.sharifi77@gmail.com).

### New Rates for Advertisements

As a service to our members and advertisers, the Board of Directors voted to offer discounted rates for advertisers who want to communicate their message for a year. The rates for advertisements are now:

	Single issue	Six consecutive issues, per issue
Full page:	\$330.00	\$285.00
Half page:	\$220.00	\$190.00
Quarter page:	\$135.00	\$120.00
Column wide ads: per inch	\$35.00	\$30.00

For additional information, or to place an advertisement, please contact the Editor, Jorg Largent, at [jorg.largent@incose.org](mailto:jorg.largent@incose.org)

### INCOSE-LA Chapter NEWSLETTER

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# WE'RE HIRING!

- Consulting Electrical Engineer – Radar Systems & Missile Subsystems 19000322
- Principal Electrical Engineer – HW-RTL Design 18027910
- Principal Software Engineer – OO/C++ 18026819
- Principal Systems Design Engineer – Aircraft Integration 18026851
- RF Systems Technical Director 19000321
- Sr. Electrical Engineer – CCA/Digital Designer 18027913
- Sr. Electrical Engineer – HW-RTL Design 18027904
- Sr. Electrical Engineer – RTL/FPGA/Firmware, Hardware Design 18027912
- Sr. Principal Electronic Systems Design Expert 18026939
- Sr. Principal Systems Engineer – Vehicle Conceptual Design 18026860
- Sr. Principal Electrical Engineer – HW-RTL Design 18027914
- Sr. Principal System Security Engineer Architect 18026865
- Staff Aerospace Engineer (Guidance & Control) 18026940
- Staff Thermal Engineer/Thermal Analyst 18026950
- Systems Engineer 6 – Systems Development (Propulsion/Aerodynamics/G&C) 19000293
- Technical Director – AARGM-ER 19000388

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**[www.northropgrumman.com/Jobs/](http://www.northropgrumman.com/Jobs/)**

**Click 'Advanced Search', Type in Keyword (Ex. Engineer), then Select Location 'Northridge'**

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Northrop Grumman is committed to hiring and retaining a diverse workforce. We are proud to be an Equal Opportunity/Affirmative Action Employer, making decisions without regard to race, color, religion, creed, sex, sexual orientation, gender identity, marital status, national origin, age, veteran status, disability, or any other protected class. For our complete EEO/AA and Pay Transparency statement, please visit [www.northropgrumman.com/EEO](http://www.northropgrumman.com/EEO). U.S. Citizenship is required for most positions.

**INCOSE-LA Chapter NEWSLETTER**

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## Adopting Systems Engineering in a Non-Defense Environment March Speaker Meeting

Rob Day, Enterprise Systems Engineering Lead for John Deere, will be the speaker at the March 12, 2019 Speaker Meeting. The meeting will begin at 5:30 p.m. The venue will be the Aerospace Corporation facility in El Segundo. An e-mail reflector notice with more details and the particulars will be sent out in early February.

What one generation tolerates, the next generation will embrace.  
John Wesley

## CSER 2020: It's Coming! March, 2020

Ignorance more frequently begets confidence than does knowledge. It is those who know little, and not those who know much, who so positively assert that this or that problem will never be solved by science.

Charles Darwin

### The Town Hall Meeting A few of the members who participated in the meeting

Light yourself on fire with passion and people will come from miles to watch you burn.  
Attributed, with some doubts, to John Wesley

### The Dunning-Kruger Effect?

It is old news, and yet something of which we should be wary?

The Dunning-Kruger effect is a cognitive bias in which people of low ability have illusory superiority and mistakenly assess their cognitive ability as greater than it is.

"The fool doth think he is wise, but the wise man knows himself to be a fool." Shakespeare, in *As You Like It*.

Proverb from Jewish Scripture: "Fools suppose their way is straight, but the wise pay attention to advice."



INCOSE-LA Chapter NEWSLETTER

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*(Town Hall Meeting, continued from page 1)*

2010 Chapter President Rosalind Lewis officiated at the installation of new officers, after which 2018 President Dr. Rick Hefner spoke about the accomplishments of the Chapter during 2018 and recognized the efforts and contributions of several of the members. Rather than a formal discussion of member inputs per se, the group engaged in networking and several parallel discussions of topics of interest.

One of the challenges embraced by the Chapter is reaching out to students. Dorothy Benveniste, the newly elected Director of Systems Engineering Education, raised the challenge and asked what we can do to reach out to students, to encourage them and to mentor them (see article on page 5).

Dr. Sue Gabriele talked about the Systems Thinking Roundtable, an open forum she and Cecilia Haskins will be hosting each morning at the International Workshop, and welcomed all who attend the International Workshop to join in the discussions.

President Dr. Mark McKelvin collected survey inputs and discussed the data with several people, as noted in his "President's Corner" on Page 1.

The Membership Chair, Karen Grothe, discussed a proposed presentation on "Tips for Retaining New Members Guidelines."

Dr. McKelvin and Dr. Hefner are discussing the potential for a training on SysML course that would be hosted at Caltech in a computer lab with about 30 computers.

Collaboration with other professional societies is seen as an opportunity to "spread the word," and Vice President Mark Teneyck is considering how we might have joint meetings with organizations such as PMI and AIAA. One potential opportunity is a Speaker Meeting with the AIAA featuring Charles Vono of the Wasatch Chapter speaking on sustainment.

The evening of good food, good fellowship, and some serious, and enthusiastic, concept development concluded on a high note of camaraderie and eagerness to further the profession and to serve the systems engineering community in the Los Angeles area.

*("President's Corner, continued from page 1)*

Attending Chapter meetings is also the favorite of events that we offer to our members, according to the respondents. So, when asked which industry related topics are of interest, the respondents noted model-based engineering and its applications to different domains. Another popular topic is autonomous systems. To help understand what members like most about the organization, the overwhelming response is networking. Although the survey results indicate overall satisfaction in the events we currently offer, areas of improvement include increasing active engagement with student members and increase engagement with K-12 students in Science, Technology, Engineering and Mathematics (STEM) fields. These results indicate that the respondents enjoy networking at Chapter-hosted events, receive valuable information through our Chapter meetings, and are interested in strengthening our relationship with students at all levels. As indicated from the respondents, the primary source of information are e-mails and the website. So, look out for more information on events and opportunities to get involved through these mediums.

So what are some plans for 2019? We plan to continue popular events, such as Chapter speaker meetings. We will look into new ideas on being more effective with mentoring students at all levels and incorporate topics of interest to the membership at Chapter meetings. Some new ideas we are intending to pursue include expanding outreach to other chapters, increasing efforts to provide education on systems engineering practice, and providing a hands-on tutorial on the application of Model-Based Systems Engineering. Major events this year will include hosting of the 2019 Western States Regional Conference. On the business operations side of the Chapter, we are looking at improving how we manage communications within the organization and externally to potential members and collaborators. We will also be planning the execution of the 18th Annual Conference on Systems Engineering Research to be held in Los Angeles in 2020.

As an organization, we function because of the efforts from our volunteers. We encourage any involvement that you may provide. So, if you are interested in starting an effort or supporting an existing effort or program, please contact me or any other officer. There are many opportunities to participate. This is also a good time to reevaluate what you value in the organization and consider how can you help improve it. Keep your ear out for the email reflectors and *Newsletter* for upcoming events, and come out to network with other professionals. I will look forward to working with you all.



#### **The 2019 Board of Directors**

Back row:

Mark TenEyck, Vice President; Mark McKelvin, President; Karen Grothe, Membership; Scott Birtalan, Communications; Rosalind Lewis, 2010 Chapter President

Front row:

Phyllis Marbach, Secretary; Rick Hefner, Immediate Past President; Dorothy Benveniste, Systems Engineering Education; Stephen Guine, Ways and Means.

Not pictured: Lin Yi, Treasurer; Nazanin Sharifi, Programs

## **INCOSE-LA Chapter NEWSLETTER**

Vol. 17: Issue 1, February — March 2019



The Chapter closed out the year 2018 with the traditional holiday party at the Marina Del Rey Yacht Club. The usual good food, superb ambience, and camaraderie were complimented by a singular after-dinner speaker, Don McMillian. Don has a Master's Degree in Electrical Engineering from Stanford, and his entertaining and insightful presentation, "Technically Funny," emphatically dispels the rumor that engineering, and engineers, are something less than a source of humor. Don's website is: <https://www.technicallyfunny.com/book-don/>

The Chapter thanks Dr. Bo Oppenheim, of Loyola Marymount University, for arranged for the use of this elegant venue.



## *The INCOSE-LA Chapter Holiday Party*



**INCOSE-LA Chapter NEWSLETTER**

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**The Board of Directors wishes to welcome the following new members to the Los Angeles Chapter of INCOSE.**

Note: The information listed below is from the member directory and is based upon your initial membership application. If the information is not correct or complete, then please access the member directory (at [www.incose.org](http://www.incose.org)) to update your information.

Name	Organization
Craig Brown	
Vito Bertuglia	
Adrian Stoica	Jet Propulsion Laboratory
Drew Christensen	Northrop Grumman Corporation
Vinodini Sundaram	Booz Allen Hamilton
Christopher Thoman	Loyola Marymount University
Patrick Larson	LinQuest Corporation
Daniel Erwin	University of Southern California
Sakib Karim	LinQuest Corporation
Jessica Tucker	Beca Ltd.
Sean Silvestre	Booz Allen Hamilton
Nancy (Huong) Vu	Booz Allen Hamilton
Wendy Lui	LinQuest Corporation
Richard Quon	Embry Riddle Aeronautica University
Jason DeGroot	LinQuest Corporation
Sean Li	
Charles Rudolph	LinQuest Corporation
Merrisa Griffin	Northrop Grumman Corporation
Monica Serafico	Booz Allen Hamilton
Brent Scott	Loyola Marymount University

**2019 Board of Directors**

Elected Officers			Elected At-large Directors		
President	Mark McKelvin	mckelvin@usc.edu	Membership Chair	Karen Grothe	Ksgrothe@yahoo.com
Vice President	Mark TenEyck	Mark.teneyck@3ds.com	Programs Committee Chair	Nazanin Sharifi	n.sharifi77@gmail.com
Immediate Past President	Rick Hefner	rhefner@caltech.edu	Systems Engineering Education	Dorothy Benveniste	djbenven@ca.rr.com
Secretary	Phyllis Marbach	prmarbach@gmail.com	Ways and Means Chair	Stephen Guine	Stephen.Guine@ngc.com
Treasurer	Lin Yi	Lin.yi.dr@ieee.org	Communications Committee Chair	Scott Birtalan	scott.birtalan@ngc.com
Appointed Positions					
Newsletter Editor	Jorg Largent	jorg.largent@incose.org	Student Division Ambassadors	Scott Birtalan	scott.birtalan@ngc.com
Technical Society Liaison	Shirley Tseng	shirleytseng@earthlink.net	Reflector Manager	Deborah Cannon	Deborah.a.cannon@aero.org
Chapter Awards Manager	Rick Hefner	rhefner@caltech.edu	Social Media Manager	Doris Gebelein	doris.gebelein@lmco.com
Professional Networking Chair	Scott Birtalan	scott.birtalan@ngc.com	New Member Ambassador	Collette Kurtz	kurtz905@aol.com
Representative to the SF Valley Engineer's Council	Stephen Guine	Stephen.Guine@ngc.com	Volunteer Coordinator	Karen Miller	karmill888@aol.com

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# INCOSE-LA Chapter      NEWSLETTER

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Return Address:

PO Box 10969  
Westminster, CA 92685-0969

## Forwarding Service Requested

The International Council on Systems Engineering (INCOSE) is a not-for-profit membership organization founded to develop and disseminate the interdisciplinary principles and practices that enable the realization of successful systems. INCOSE's mission is to share, promote, and advance the best of systems engineering from across the globe for the benefit of humanity and the planet.

The Los Angeles Chapter meets several times per year for speaker meetings and, in addition, sponsors tutorials, mini-conferences and other activities of interest to those in systems engineering or related fields.

## UPCOMING EVENTS

For more information on these and other events of interest in the Los Angeles area, look for a Reflector Notice in your email, and check the Chapter website: [www.incose.org/los-angeles](http://www.incose.org/los-angeles) . Like us on Facebook

### February Speaker Meeting

The Vision Statement:  
Step 1 for a Project, Though Oft' Overlooked  
Tuesday, February 12, 2019  
The Aerospace Corporation  
El Segundo, California  
No cost for members

Register at <https://tinyurl.com/LA2019Feb>

See article on page 2

standby for a Reflector Notice in your e-mail

### Aerospace Corporation's 4th. System Engineering Forum

Leveraging MBSE Across the Enterprise  
Tuesday — Thursday, February 12 — 14, 2019  
The Aerospace Corporation  
El Segundo, California

Register at

<https://aerospace.org/events/systems-engineering-forum>

See article on page 3

Check your e-mail for a Reflector Notice

### The 23rd. Annual Ground System Architectures Workshop

February 25, — 28, 2019  
INCOSE-LA STEM Event  
February 27, 2019  
No cost for members to attend INCOSE-LA

See article on page 4

Standby for a Reflector Notice in your e-mail

### First Quarter Strategic Planning Meeting

*The members' opportunity to be heard and contribute*

Saturday, March 2, 2019

9:00 a.m. — 3:00 p.m.

Manhattan Beach Community Church

Lunch included

No cost for members

Standby for a Reflector Notice in your e-mail

### March Speaker Meeting

Adopting Systems Engineering in a Non-Defense Environment

Rob Day, Enterprise Systems Engineering Lead

John Deere

Tuesday, March 12, 2019

The Aerospace Corporation

El Segundo, California

Standby for a Reflector Notice in your e-mail

### April Speaker Meeting

Systems Engineering Education

Tuesday, April 9, 2019

Standby for a Reflector Notice in your e-mail

### Western States Regional Conference

Systems Engineering in the Twenty-First Century:

Time to Double down

September 13 — 15, 2019

Loyola Marymount University

Los Angeles, California, overlooking Marina Del Rey

Standby for a Reflector Notice in your e-mail