

# NEWSLETTER



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



2004-14



2015-16

## 2017 in the Rear View Mirror: The President's Retrospective

*By Past President Phyllis Marbach*

It has been an honor to serve as the President of the LA Chapter in 2017. I look forward to continuing to serve on the board as the Immediate Past President and as the Secretary. As secretary I will be actively engaged in communication within the Board of Directors.

Communication is key to our ability to serve the membership with meaningful events and to work well together within the Board of Directors and with volunteers. I look forward to working with the newly elected board members and returning board members. The Strategic Planning Meeting on February 10, 2018 will include planning for 2018 by the Board of Directors. Members are welcome and encouraged to attend. We received good feedback from those that attended the townhall on January 9, 2018 (see article on page 2). That feedback will be considered as speaker meetings, tutorials, collaborative events, student outreach, and networking events are planned.

One area in which we are actively engaged as a Chapter is planning for the first annual Western States Regional Conference (WSRC). The conference will be held September 20-22, 2018. The venue has moved from Seattle, Washington to scenic Ogden Canyon Utah, 42 miles north of Salt Lake City, Utah. The theme is Systems Engineering out W.E.S.T.: Workplace, Environment, Sustainment, Technology. Committees members are being sought from the many western states chapters.

*(See "Presidential Retrospective," continued on page 6)*

## The President's Corner "Hello" from our Incoming President

*By President Dr. Rick Hefner*

In taking over the responsibilities of INCOSE-LA President, I must confess to a mix of emotions – humbled by the opportunity, excited by the chance to work with such a great team of officers, and apprehensive about following in the footsteps of INCOSE-LA Past Presidents. Working this year with Phyllis Marbach, our Past President, I was inspired by her dedication and hard work. I hope you will join with me in thanking her for her countless hours, next time you see her. (Yes, she even volunteered to continue on as Chapter Secretary, instead of taking a well-deserved rest!)

At the recent townhall meeting I asked the group assembled what we should do MORE of this year – speakers, tutorials, mini-conferences, social events, membership events, support to student chapters, support to our local communities. The answer was a resounding "All of the above!" So it looks like we will have a full plate again this year.

Obviously, we can use help in making all these wonderful events happen. If you would like to get involved, or have a passion for something, please contact me. We always have many opportunities for volunteers – whether you want to lead or just be one of the helpers. This is great way to expand your network and to give back to your profession.

Sincerely,  
Rick Hefner, INCOSE-LA President

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## The Chapter Kickoff for 2018 The Townhall Meeting

By Past President Phyllis Marbach

INCOSE-LA started the year with a townhall meeting, held at the Buca de Beppo restaurant in Redondo Beach. Twenty-six members enjoyed Cheesy Bread Florentine, Caesar salad, apple Gorgonzola salad, baked ziti, Penne San Remo, Chicken Limone and cheesecake. In addition to enjoyment of dining on delicious food, the meeting included the recognition of the 2017 board members and the induction of the new board members for 2018. The Chapter was proud to recognize the co-chairs of the Conference on Systems Engineering Research (CSER) Terry Rector and Marilee Wheaton during the event.

The Chapter also recognized Marilee Wheaton with the Susan C. Ruth Award. This award is presented to a long-time member in recognition of volunteer service to the Chapter for at least five years. Marilee showed such support during the past year by not only helping line up the speaker for the Model-Based Systems Engineering (MBSE) November 2017 evening meeting, but she also arranged for the trainer for the MBSE Tutorial the Saturday following the speaker meeting. Marilee went above and beyond by being present during the speaker meeting when the speaker ended up presenting remotely after being called out of town for work. She also arranged for support of the MBSE Tutorial on November 19, 2017, held at The Aerospace Corporation. The INCOSE-LA Chapter is very grateful for Marilee's support during 2017 and through the years.

Andrew Murrell was awarded the INCOSE-LA President's Award. Andrew has been extremely devoted to the INCOSE-LA Chapter this past year. He petitioned his management to establish Rockwell Collins (RC) in Irvine as a remote employee speaker location and eventually working with his security organization to be able to allow escorted guests to attend from that location as well. In addition to supporting the remote speaker location, Andrew has been attending the video SE Handbook V4.0 trainings on Thursday evenings with a group of RC employees. Andrew's enthusiasm for spreading the word about systems engineering best practices truly embodies the INCOSE 2025 Vision to "Broaden the base of systems engineering practitioners".

Following the awards presentations and induction of officers, our 2018 President, Dr. Rick Hefner, conducted a townhall. Rick asked those present questions about our initiative and events to learn if we are doing things about right or should be doing them more. There was also discussion regarding things we might want to change.

Notes from those discussions follow:

- Should we do more speaker meetings? – We usually have eight per year. Two people thought we should.
- Should we continue to have mostly Aerospace topics or branch out more? – One comment was that the Disney speaker was interesting and most thought having speakers from topics other than Aerospace would be valuable.
- Another person commented that it would be interesting to present different career paths in systems engineering.
- What about the social events with no agenda – are we doing enough or should we do more? It was more heavily voted to do more.
- Those present thought engaging a supporter was okay. In other words, a sponsoring organization that might pay for the food to be able to advertise their product or products.
- Are we doing enough tutorials? Most people thought we should do more. Do folks want to see more technical depth in the tutorial? How can we build skills in a specific area? Topics those present were interested in are Cybersecurity and MBSE.
- We need to define what the value is to the members for attending the event. Also, what is the value to our members of being a member of INCOSE.
- Could we combine an interesting speaker with a membership event? Or perhaps a tour at an interesting location. Could we find a host to sponsor a membership meeting?
- Pure membership event: 415 members right now. Should we do more in membership? Most think more is needed. Do we have folks in the pipeline? What are we doing with our students.
- Can we get student members to retain their membership and stay in the Chapter?
- Can we establish a membership pairing program where we pair the member with a student member?
- Encourage the students to come to the networking events to help them find jobs. We could team with other prof orgs to host this type of event.
- We could include students into our speaker meetings to present their projects.
- We could have some student poster ideas at the job fair.
- Does INCOSE have a mentoring program? Yes, held at the IS.
- UCI has a poster session every quarter. We could do something like a special poster session.

(See "Townhall," on page 6)

### Your Chapter officers for 2018:

- **President:** Rick Hefner, California Institute of Technology
- **Vice-President:** Mark McKelvin, The Aerospace Corporation
- **Secretary:** Phyllis Marbach, The Boeing Company (retired)
- **Treasurer:** Lin Yi, National Aeronautics and Space Administration Jet Propulsion Laboratory
- **Programs Director:** Mark TenEyck, Dassault Systemes
- **Membership Director:** Karen Grothe, INCOSE ASEP
- **Immediate Past President:** Phyllis Marbach, The Boeing Company (retired)

### Other board members continuing their term:

- **Communications Director:** Neil Wigner, Northrop Grumman Corp (NGC)
- **Ways and Means Director:** Stephen Guine, NGC
- **Systems Engineering Education Director:** Tony Magorno, The Mitre Corporation

## INCOSE-LA Chapter NEWSLETTER

Vol. 16: Issue 1, February — March 2018

## Vehicle-Human Interaction and the Internet of Things (IoT) February Speaker Meeting

The application of new computer-based and internet-based systems in automobiles (and other surface transportation systems) has seen explosive growth over the last few years and holds the promise of even greater use in the near future. The February 13, 2018 speaker meeting features another insight into the growing area of technology.

**Biography:** The speaker is Shaun Westbrook, a Principal Human Machine Interface (HMI) Lead and Futurist at Honda Research and Development Americas, pioneering advances in human machine interfaces. He holds inventor patents in interface technologies and has presented his work at Consumer Electronics Shows (CES), CES Asia, Los Angeles Automobility, and the North American Auto Show. His work covers areas in human mobility, consumer electronics, and artificial intelligence (AI). His HMI work aims to increase human confidence in future autonomous vehicles and decrease driver distraction for production systems.

**Abstract:** As we approach the age of autonomy, when connected robotics and autonomous vehicles become widespread, there also comes a need to build human confidence in those AI systems. The Honda HMI concept and Acura Precision Cockpit were new human machine interface electric vehicle interior demonstrators that unlocked the benefits of connectivity and autonomous technology while offering an enhanced driving experience. When designing for autonomous user-experience (UX) systems, however, giving over confidence in the AI safety elements can also be a problem. In order to tackle this, successfully connecting the dots between different industries as we approach the fourth industrial revolution becomes necessary. This talk will cover the role of the futurist in the research and development environment and the evolving role of the interface for machine vision systems.

### Details:

When: Tuesday 13 February, 2018

Where: HOST VENUE: The Aerospace Corporation, Building D8/1010, 200 N. Aviation, El Segundo, California, 90245

Cost: Members: FREE. Non-members: \$10 (refreshments provided)

### 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

Registration: in order to facilitate access and planning, please register by noon February 6, 2018.

Foreign nationals need to register by February 1, 2018.

Registration Link:

<http://events.constantcontact.com/register/event?llr=l4ihvgeab&oeidk=ao7eeszzfn485e4491>

## GSAW, INCOSE-LA, SPIN, and USC CSSE Evening Session

The 22nd annual Ground System Architectures Workshop (GSAW) is meeting February 26, 2018 through March 1, 2018. 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 new for this year, technical exhibits.

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

Special Evening Session February 28, 2018,  
starting at 5:30 p.m.

Sponsored by GSAW

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

A special part of this four-day event is an evening session which will focus on fostering Science, Technology, Engineering and Math (STEM) education and careers in the context of ground systems. The session will be broken into two segments: the first segment (about one hour) will feature presentations, and the second segment (about one hour) will feature an interactive panel session. Presentations in the first half of the evening session will include STEM presentations from students, educators, and industry. The presentations will describe approaches and experiences getting students interested in STEM education and careers. Our presenters will discuss their work in cultivating interest in STEM education and careers in aerospace, computer science education; and their personal experiences with STEM outreach. The panel session will follow up on the topics raised in the presentations and will include discussions and questions on STEM education and careers, and on attracting students to ground systems and to systems engineering in general.

### The challenge:

As the space domain becomes more crowded and contested, ground systems are driven to continue to evolve technologically to meet our nation's challenges. Current and future technologies, such as speech recognition, smart speakers (e.g., Amazon Echo, Google Home), cloud computing, virtualization, and machine learning, are increasingly impacting our ground systems. The aerospace engineering community must encourage and support opportunities for the next generation to pursue more STEM-focused education and careers, to foster realization of these and other future technologies in ground systems. The objective of this evening session is to highlight how the industry is currently supporting STEM initiatives, particularly in the areas of space and ground systems, and what attendees can do to foster more interest in STEM education and careers in their own communities.

(See "GSAW," on page 5)



## San Diego Science Technology Engineering and Math (STEM) Night

The San Diego Chapter of INCOSE held a highly successful Teacher/Student STEM Night for teachers and students on November 17, 2017. The annual event was held at the LEGOLAND Aquarium in Carlsbad. And, as they say, a great time was had by all!

About 85 people attended the event with 40% being children. The aquarium was a winning environment, in no small part due to the experiences such as the highly popular feeding of sting rays.

Four teachers spoke about how they used their INCOSE STEM teaching grants that were sponsored by Cubic, ViaSat, SAIC, and INCOSE members. There were five demonstrations by teachers and students. These demonstrations were set up to show examples of how the grants were used and how they helped the students learn about STEM subjects. The teachers, students, and the other attendees enjoyed interacting and learning about the demonstrations.

The INCOSE Los Angeles Chapter supported this event with a donation of \$100 to cover the cost of four teachers or students to attend.

### Engineering Tour of a Petroleum Refinery

*Inputs by Brad Dybel*

The Orange County Engineering Council (OCEC) sponsored an information-packed technical tour of the Chevron Oil Refinery in El Segundo, California for 45 participants on December 7, 2017. Chevron employees, Paul Struve, a chemical engineer and David Beebe, a mechanical engineer served as hosts for the tour. They provided detailed descriptions of the various facilities on the grounds, including the Crude Oil Main Feed Units, Distillation Columns, Energy Cogeneration Plants, and the Chevron Isomax Division's proprietary "hydrocracking" facility. The El Segundo refinery, originally built in 1911 by the Standard Oil Company of California, processes nearly 300,000 barrels of crude oil per day, and supplies Los Angeles International Airport with approximately 40 percent of its jet fuel needs. The refinery makes great efforts to be a good neighbor to the surrounding community by controlling noise, emissions, and other environmental impacts. It maintains a two acre preserve for the El Segundo Blue Butterfly – an endangered species. The El Segundo refinery has also earned a strong reputation throughout the years for worker safety, having recently been recognized as the safest refinery in the United States. Steve Cheung, the event organizer, noted that OCEC's tour was a sellout, and that the tour group consisted of professionals and students from many engineering fields, including chemical, aerospace, civil, mechanical, and environmental.

## Fundraising Manager An Opportunity with INCOSE-LA

### **Title:** Fundraising Manager

**Description:** The Los Angeles Chapter of INCOSE is seeking a volunteer to support our ongoing fundraising activities. The position is responsible for creating programs to generate funding from advertising and sponsorship via our Newsletters, social communication, educational events, and social events. The manager will work closely with our Treasurer and Communications Director to create and align programs to funding goals and the interests of the members.

**Key Skills:** Excellent verbal and written communication skills. Past fundraising or selling background is a plus.

**Start Date:** Immediate

**Interested?:** Please contact the Chapter President, Dr. Hefner, at [rhefner@caltech.edu](mailto:rhefner@caltech.edu)

## IEEE Rising Stars An Example of an Opportunity

*By Stephen Guine*

Stephen Guine and Lin Yi attended and supported the IEEE Rising Stars Conference held in Las Vegas January 6 through 8, 2018. This conference was focused on providing career readiness guidance and awareness of various activities occurring in the professional domains. Lin manned an INCOSE information booth to discuss the role and relevance of systems engineering and systems thinking as part of a professional "toolkit." There was a great deal of interest. While many of the students and young professionals were aware of "systems engineering" as a practice, they still desired detailed information on how systems engineering as a discipline is being implemented in various types of companies and product spaces.

Stephen gave a presentation titled "Innovation, Reliability, and Technical Quality" that illustrated how using classical systems engineering processes and methodologies can highlight the reliability and quality requirements and constraints early in the innovation process and drive greater customer value into the innovation process. The presentation included a simple scenario that was designed to highlight how it might be possible to focus on an innovation idea and develop a system architecture that fails to incorporate quality and reliability and thereby fails the customer's validation and value proposition.

Both Stephen and Lin felt this is the type of conference that INCOSE-LA should be looking to co-sponsor or in which to participate in the future. The opportunity to interface with students who are still in the early stages of their technical education is fertile ground for INCOSE to influence future professionals.

## *Year-End Holiday Party An Annual Chapter Tradition*

*Inputs by Karen Miller*

The holidays got off to a festive start with the Chapter Christmas Party held at the Marina Del Rey Yacht club on December 9, 2017. Nearly sixty regular members, new members, student members, and guests attended. The evening began with a mixer game, appetizers, and drinks. The early festivities included gathering on the open deck to view the annual fireworks display. After the fireworks display, lighted boats began a parade which lasted throughout the evening. The Yacht Club is a beautiful setting in the Marina Harbor, and our large-windowed private room provided a spectacular view of the yachts and the lighted boat parade.

The delicious dinner included many courses and desserts. Following the dinner, President Phyllis Marbach welcomed everyone and told us of the exciting events and plans the Chapter is making for the upcoming year.

Fun and enjoyable entertainment for the evening was provided by Brian Regalbuto, husband of member DeAnna Regalbuto. Brian did magic tricks as part of his Mark Twain improvisation routine. Scott Birtalan provided the Christmas music for the evening, and Paul Cudney served as the registrar and greeter. Table decorations were created by Cristine Wolf, and Karen Miller coordinated the event.

A large number of students from Loyola Marymount University attended along with the new Systems Engineering Leadership Program Director, Clair Leon and Professor John Poladian. The party was very successful, and everyone enjoyed the fellowship, the delicious dinner, and the lovely venue.

Many thanks to Dr. "Bo" Oppenheim, a member of the Yacht Club, for his role in facilitating the food and facilities.

## **Speaker Meetings Let Us Hear From You**

*By Mark TenEyck*

As many of you know, INCOSE-LA typically hosts monthly meetings with featured speakers from various companies and industries. We constantly strive to provide new topics and areas of interest, that are valuable and enlightening to our Chapter members. I would like to take this opportunity to reach out to our members for suggested topics and speakers. Please feel free to contact me, Mark TenEyck, with suggestions at [mteneyck11@gmail.com](mailto:mteneyck11@gmail.com).

*(GSAW, continued from page 3)*

### **Presenters and Panelists:**

- Barry W. Boehm, TRW Professor, USC Computer Sciences, Industrial and Systems Engineering, and Astronautics Departments
  - ◊ Educating T-Shaped Software-Intensive-System Engineers
- L. DeWayne Cecil, Founder and Chief Scientist, Destination SPACE
  - ◊ Ground Station Architecture for SPACE (Satellite Program for Aerospace-Centered Education)
- Stephen K. Guine, Space Product Quality Manager, Northrop Grumman Aerospace Systems
  - ◊ STEM and Systems Engineering: A Continual Need and Natural Fit
- Paul J. Hudgins, Masters Student, Virginia Commonwealth University, and former Marine
  - ◊ A Student's Perspective on Computer Science Outreach
- Mark L. McKelvin, Engineering Specialist in Applied Software Technologies, The Aerospace Corporation
  - ◊ Fostering STEM Education

### **Session Leads:**

- Michelle Carter, Sr. Engineering Specialist, The Aerospace Corporation
- Judy Kerner, Sr. Project Leader, The Aerospace Corporation

### **Particulars:**

Date: Wednesday, February 28, 2018

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 (discounted GSAW rate) for parking.

### **Co-hosting Organizations:**

International Council on Systems Engineering – Los Angeles

Software Process Improvement Network (SPIN)

University of Southern California Center for Systems and Software Engineering (USC CSSE)

Plan on joining us at this interesting evening.

For more information watch for a reflector notice in your email or go to the INCOSE-LA website at: <https://www.incose.org/ChaptersGroups/Chapters/ChapterSites/los-angeles/chapter-home>

## **Volunteer!**

You will learn things you never knew you needed to know!

*(Townhall, continued from page 2)*

- Should we do more with students? Yes
- Matthew is a CSULB student. Amanda is writing up a charter for an INCOSE student division at CSULB.
- Having speakers from multiple fields is appealing to students. Artificial Intelligence, Cybersecurity, automated vehicles, electrical levels might learn from industrial type projects.
- Students might join INCOSE to get an internship or good advice for getting a job.
- Mentorship is available through other associations. Students still have a lot to learn. Interacting on a personal level will make the difference.
- The student divisions are very dispersed. They got them all together a few years ago at USC. Perhaps they could do that again.
- Look at an on-line project with a webpage that is for students and poster projects. They can post them to the on-line site and it is open for others to see.
- They could have an open format where the students show up and present and get feedback.
- We have a big geographical area so perhaps we should go out to those schools.
- Scott is the INCOSE Social Networking liaison so Fred Lawson worked with Scott to host a Young Professionals event. Internet of Things or Satellite Tool Kit would be good future topics.
- Space systems working group has adopted No Magic as the tool for “cube sats” (small, cubical satellites; see paper “Applying the SE Process to a Conceptual Mercury CubeSat Mission,” by Karen Grothe at the 2016 Regional Mini-Conference).
- We reach out to other chapters like ours to help with other things. How many think we should do more?
- Broader community topics: Should we reach out to STEM and Robotics and GameSIG. Can we do more in this area? About five folks voted to do more. There is a Makers fair at a high school in the south bay. The businesses that will exhibit there are being coordinated by Deborah Sheppard. We could engage with this fair. Businesses could also engage. It is May 12 or 13, 2018 on a Saturday. No fee to attend. Mark TenEyck could use help with pneumatics and robotics.
- We could bring a systems engineering discipline and systems thinking expert to community problems.
- We will need help from more volunteers to engage in these additional events and activities and to spearhead them.
- When we had the Volkswagen problem we had more folks come to the event, per Padman.
- Shirley shared that SWE pays for the person’s first prof membership to encourage them to continue.
- Can we break into sections or have networking in their own area? Someone could host a remote site from their area.

- Following the discussion two additional ideas were given: have a speaker talk about how systems engineering is applied to sensors, frequencies, or acquiring a frequency band within the global satellite assignments. Essentially target some other engineering field, rather than requirements, or more traditional systems engineering topics.
- Also, have a networking event like a picnic.
- Another idea is to have a group campsite reserved on a weekend in a central location and a specific agenda so folks could come from Sat. noon through Sun. noon depending on which topic/event they wanted to attend or they could join the group for the whole 24 hours.

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## Western States Regional Conference September 20 — 22, 2018

The First Annual Western States Regional Conference  
The Wasatch Chapter of INCOSE is hosting this first annual regional conference, serving the systems engineering communities from the Front Range in Colorado to the Pacific Coast. The conference will feature technical presentations, working groups, and panel discussions, with more activities being planned. This will be a great opportunity for high quality learning, networking, collaborating – all close to home in the majestic Wasatch Mountains. The venue is the Orbital ATK Conference Center, located in scenic Ogden Canyon – just an hour north of Salt Lake City International Airport.

The Los Angeles Chapter is supporting this conference and is arranging for Paul White of the Wasatch Chapter (the leader of this first-of-its-kind event) to speak to Chapter in the near future.

Want to learn more? Go to <https://incose-wsrc.eventbrite.com>

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*(Presidential Retrospective, continued from page 1)*

Please consider serving on the Technical Program Committee, the Integrated Operations Committee, the Outreach Committee (marketing and publicity), the Finance Committee, or the Sponsorship and Exhibits Committee. Please contact Phyllis Marbach at [prmarbach@gmail.com](mailto:prmarbach@gmail.com) for more information about these committees and the conference itself.

It is not too soon to start thinking about what you would like to present at the conference and submit your paper to your employer for release. The call for papers will be coming out in the next month. I hope to see you not only at the International Symposium in Washington D.C. in July but at the Western States Regional Conference in Utah in September.

Note: Phyllis is serving as the deputy chair of the 2018 WSRC to help prepare for the 2019 WSRC, which will be held in the Los Angeles region.

## Join INCOSE!

The International Council on Systems Engineering is the world’s authority on this science of the future.

Learn more at: [www.incose.org](http://www.incose.org)

## INCOSE-LA Chapter NEWSLETTER

Vol. 16: Issue 1, February — March 2018



**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
Michael Logue	University of California, Irvine
Stefan Bartkowicz	Northrop Grumman Corporation
Helen Bloomfield	USAF SMC
Matthew Schmitt	JT3, LLC
John Wong	US Air Force/SMC/LEE
Anil Kuman	San Jose State University
Mark McKelin	The Aerospace Corporation
Sean Canullas	Raytheon Corporation
Marie Piette	Jet Propulsion Laboratory
Eric Brower	Jet Propulsion Laboratory
Daniel Hope	US Department of Defense
Charles Pickman	Northrop Grumman Corporation
Robert Payne	
Joanna Fregoso	Loyola Marymount University



Paul Cudney, left, and Edwin Ordoukhanian, right, were just two of the bon vivants who enjoyed the holiday party at the Marina Del Rey Yacht Club.

## 2018 Board of Directors

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

## INCOSE-LA Chapter NEWSLETTER

Vol. 16: Issue 1, February — March 2018

# INCOSE-LA Chapter      NEWSLETTER

Vol. 16: Issue 1, February — March 2018

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

### First Quarter Strategic Planning Meeting

*The members' opportunity to be heard and contribute*

Saturday, February 10, 2018

8:45 a.m. — 3:00 p.m.

The Manhattan Beach Community Church

303 South Peck Avenue

Manhattan Beach, California

Continental breakfast and lunch will be served

No cost for members

Registration: <http://events.r20.constantcontact.com/register/event?oeidk=a07eeyfgomkcb0dbe46&llr=l4ihvgeab>

### February Speaker Meeting

Vehicle-Human Interface and the IoT

by Shaun Westbrook

Tuesday, February 13, 2018

5:30 p.m. — 8:30 p.m.

The Aerospace Corporation

El Segundo, California

*See article on page 3 for details*

### March Speaker Meeting

Solar Decathlon Winner: Alex McDonald

Tuesday, March 13, 2018

5:30 p.m. — 8:30 p.m.

The Aerospace Corporation

El Segundo, California

### 2018 International Symposium

Saturday, July 7 — Thursday, July 12, 2018

Washington D. C.

*Check the INCOSE website*

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