

NEWSLETTER



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



2004-14



2015-17

Western States Regional Conference Professional Development Day Local Option

For those who cannot make the trip to Utah but would like to take advantage of the Systems Engineering Professional Development Day (Friday, September 21, 2018) the WSRC team has arranged for remote sites.

The Los Angeles Chapter has arranged for two remote sites:

- The Aerospace Corporation -- 200 N. Aviation Blvd., El Segundo, CA 90245
- Dassault Systemes -- 301 E Ocean Blvd, Suite 1200, Long Beach, CA 90802

The Systems Engineering Professional Development Day is part of the outreach from INCOSE and is intended to help the professional systems engineer enhance his or her skills. Systems engineers interested in participating at one of the satellite sites should register by going to the conference website at:

<https://incose-wsrc.eventbrite.com>.

Once on the website, click on "TICKETS." Scroll down to and click on the appropriate "SATELLITE SITE" option. You will be asked to select a satellite site as part of your purchase.

**Systems Engineering
Professional Development
A One-Time Good Deal**



**For more information on the
conference, check out the article
and the advertisement inside!**



The President's Award

The Los Angeles Chapter was awarded the President's Award for being the outstanding chapter. The award was presented to the Chapter at the 2018 International Symposium.

On hand to receive the award (see picture, below) were Marilee Wheaton, Al Hoheb, Robert Noel, Eric Belle, Phyllis Marbach, Rosalind Lewis, Azad Madni, Mark Seager, Jorg Largent, and Bo Oppenheim.

There are many recipients of the award who were not on hand: Paul Cudney, Shirley Tseng, Dick Emerson, Terry Rector, Rick Hefner, Mark McKelvin, Jeffrey Willis, Lin Yi, Mark TenEyck, Michael Do, Tony Mangorno, Stephen Guine, Neil Wigner, Scott Birtalan, Deborah Cannon, Karen Grothe, Doris Gebelein, Collette Kurtz, Karen Miller, Susan Ruth, whose years of service set an example of volunteering, and The Aerospace Corporation, for facilitating many of the Chapter activities.

This partial list of contributors to the Chapter is but a sampler of the effort that makes the Los Angeles Chapter a leader in advancing the profession of systems engineering and in serving the professional community in the Los Angeles metropolitan area.



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The International Symposium 2018 Washington, D. C.

The 2018 International Symposium was another well executed affair, with superb technical discussions, compelling keynote speakers, networking and fellowship amongst professionals from around the world — all capped off with the usual fine dining. The sponsors from academia and industry were well represented and made their own noteworthy contributions to the success of the symposium.

Keynote Speakers

Kristen J. Baldwin is the Acting Secretary of Defense, Systems Engineering. Kristen has participated in several conferences here in Los Angeles and is an able champion of systems engineering in the Department of Defense. Kristen addressed the challenges being faced by the United States Department of Defense (DoD) in space, air, sea, land, and cyber operating domains. She noted that technology advances today are driven in large measure by the commercial sector, a circumstance which provokes a paradigm shift for defense systems, systems which are historically built upon defense research and development investments.

According to Ms. Baldwin, systems engineering is an important enabler for the Department, to adapt to changing missions, to adopt innovative technology solutions, and to rapidly field capabilities. DoD systems engineering is focused on a number of modernization efforts including, but not limited to mission engineering, digital model-based engineering, modular open systems design, software engineering, and advancing our organic engineering workforce.

Dr. Barbara Kellerman, the James MacGregor Burns Lecturer in Leadership at the Harvard Kennedy School, spoke on the limits on leadership and how to manage them. Dr. Kellerman spoke to some of the “soft science” aspects of systems engineering. She presented a frank review of the history of “leadership,” and the changes from highly authoritarian leaders to a less hierarchical populist system. She noted that in today’s liberal democracies, it is more difficult to exercise leadership than ever before. Dr. Kellerman shared her observations and conclusions with respect to two major influences: the changes in culture and technology. She did discuss the role of “follower.” The classic role has from the aforementioned authoritarian organizational structures of history. She contended there is still a role called “follower” and that the role has obligations and responsibilities, albeit new ones. She acknowledged that tearing down leaders simply for the sake of “gotcha” is a part of the game. Like so many things, this is nothing new. Technology has sped up the process. She cited Bill Clinton and Monica Lewinski as an illustration, not of something that is not new to the White House, but of a social change and people’s willingness to wallow in such and of how technology has accelerated the process.

She concludes by providing some common sense ideas on how to be an effective leader when effective followers are a force in their own right.

The question and answer session proved entertaining. Dr. Kellerman deftly focused her comments on phenomena, and avoided political advocacies one might associate with Harvard. Some in the audience, however, rose to the bait of discussing leaders, and obliquely sought her endorsement of their opinion of the current President of the United States. Dr. Kellerman did not respond in kind, and shifted the discussion to a question of celebrities having influence greatly out of proportion to their knowledge. She did not answer the question directly. Once the question was about people who leverage their celebrity status to pontificate about political and social issues, and not just Trump, it was difficult to answer the question and engage in the desired Trump-bashing without also bashing a celebrity with whom the questioner agreed. To her credit, Dr. Kellerman did not compromise her ethics and succumb to the enticement.

We call it innovation because
we don’t know what we are doing.

Langdon Morris’ keynote address was titled “The Big Shift: Innovation and Systems Engineering.” Langdon is co-founder and Senior Partner at Innovation Labs LLC. He leads the firm’s global innovation consulting practice for a wide variety of clients. His work focuses on developing and applying advanced methods in innovation and strategy to solve complex problems with very high levels of creativity. He is recognized as one of the world’s leading thinkers and consultants on innovation, and his original and ground-breaking work has been adopted by corporations and universities to help them improve their innovation processes and the results they achieve.

Langdon proved to be a very capable speaker whose speech proved to be informative and challenging, with a dash of humor. He opened with a series of non-dimensional charts, noting that graphs were an enticement, a Siren’s song, no engineer could escape. He followed by adding metrics to the charts, using them to illustrate various social and demographic changes, including the growth in the population of the world, over time, and using them to illustrate the growth in computing power and the shrinking cost of that power. He “reverse engineered” the cost of a cellphone back to 1980, and estimated that it would cost more than a Cray computer. A side observation was that a cellphone might well have more computational power than a Cray had.

Langdon shifted to a discussion of some of the consequences of the changes. One is that people are moving to urban areas, and the birth rate in urban areas is decreasing. He was noted that Japan’s birth rate has dropped to a point that the population is starting to decrease. A consequence of such a phenomenon is that the average age of the population will increase.

Langdon concluded by extrapolating the curves to show what the future may well hold. Of particular note, he identified a niche for systems engineers and their profession. He described the important role that the worldwide community of systems engineers will, or at least should, play in dealing with some of the major opportunities and challenges that humanity faces.

(See “IS2018,” on page 3)

For those who would like to watch Langdon's presentation, it is available on the INCOSE website. From the INCOSE website follow the links to the IS2018 webpage and click on "keynote speakers" in the column on the left. Scroll down to the picture of Langdon, click on the "video" link, and sit back and enjoy the presentation.

Individual Awards

Marilee Wheaton, Systems Engineering Fellow, from the Engineering and Technology Group of The Aerospace Corporation received two awards at the symposium.



Marilee Wheaton receiving her award from INCOSE President Garry Roedler

The first award Marilee received was an Outstanding Service Award for "her service and promotion of Systems Engineering and technical education through leadership of Systems Engineering conference activities and Academic endeavors, and her support of INCOSE initiatives and Chapter activities through service in the Corporate Advisory Board."

The second award was from the INCOSE Foundation and sponsored by John Hopkins University Applied Physics Lab for the Alexander Kossiakoff Systems Engineering Scholarship in recognition of her outstanding achievement in systems engineering applied research. This award was for her dissertation research that she is performing on an Aerospace Educational Fellowship at the University of Southern California Systems Architecting and Engineering Program.

Eric Belle received an Outstanding Service award, "For his service to the Los Angeles Chapter and the Americas Sector in promoting INCOSE chapter best practices, and promotion of systems engineering through his support of the Conference of Systems Engineering Research (2016) and the INCOSE regional mini-conference (2015)." Eric is a longtime member of the Los Angeles Chapter. In addition to his serving as a President of the Chapter and in other roles on the Board of Directors, Eric has been a steady and consistent contributor to activities in the Chapter. His industry and tribal knowledge have been invaluable.



Eric Belle receiving his award from INCOSE President Garry Roedler

Science, Technology, Engineering and Math (STEM) is of particular interest to INCOSE, and one of the featured activities was a group of local students who participated in a STEM event featuring robots. The future systems engineers were bright and enthusiastic – beaming with delight and keen interest in the robots and how to operate them.



Our future systems engineers enjoying learning from a STEM robot

Working Groups focused on their respective issues. INCOSE, through the Working Groups, is working to provide the authoritative knowledge needed in the development of ISO Standards (15288 and derivatives). The System of Systems Working Group is working on defining the implementation of systems engineering for systems of systems and on the implementation of the concepts into an ISO standard. The Transportation Working Group is working on the implementation of systems engineering and is making overtures to the American Public Transportation Association as that organization begins to investigate systems engineering. There was some hope that a representative from that organization might attend one of the meetings.

(See "IS Working Groups" continued on page 4)

(IS Working Groups, continued from page 3)

The Systems Engineering Quality Management Working Group is relatively new and has taken on the challenge of defining “quality management” and “quality managers” for the application of the systems engineering process. The product of this endeavor will be SEQM-certified managers.

The symposium included a banquet, which went nicely. It was in the “Portrait Gallery” of the Smithsonian Museum. They served hors d’oeuvres in a gallery on the third floor, affording attendees an opportunity to socialize while strolling through works of art. The hors d’oeuvres and pre-prandial beverages were followed by a formal dinner in the ballroom. The food was excellent. The crab cakes were of a quality equal to the Country Club of Virginia, suggesting that there are two places outside of Annapolis that serve decent crab cakes. The entrée was chicken, which was nicely done and had a basil syrup sauce that was delicious. The dessert was to die for.

The above is but a sampler of the activities at the symposium and of the efforts of INCOSE to strengthen systems engineering as a sought-after science and profession. There is a wealth of information and tools available on the INCOSE website.

For more on this challenging and timely topic, attend Scott Jackson’s presentation at the August Speaker Meeting

Assorted candid photos of INCOSE-LA Members in action at the Symposium



INCOSE-LA Chapter NEWSLETTER

Vol. 16: Issue 4, August — September 2018

Western States Regional Conference

The technical program is being finalized for the Western States Regional Conference (WSRC) of the International Council on Systems Engineering (INCOSE). The WSRC will take place on Thursday through Saturday, September 20 – 22, 2018, near Salt Lake City, Utah. The venue is the Northrop Grumman (nee Orbital ATK) Conference Center located close by in scenic Ogden Canyon.

The WSRC Technical Program includes presentations, panel discussions, workshops, and tutorials. The program is complemented by networking events and a banquet. Notification e-mails have been sent to those who submitted abstracts for presentations, panel discussions and workshops. The team is working to pull together and finalize the details.

A plenary on September 20 (Thursday) at 11 a.m. will open the proceedings. The opening will be followed by lunch and a choice between three tutorials. Activities on Thursday will include an opportunity to take the Systems Engineering Professional certification knowledge exam on paper.

Friday and Saturday will have plenary speakers, presentations, and panel discussions. There are three rooms where presentations will be made throughout Friday and Saturday with sponsors and exhibits available in the bar during those days. Tracks include Systems Engineering Program/Project Management, Agile Systems Engineering, Model-Based Systems Engineering, Resilience and Sustainability, Systems Engineering Across the Enterprise and Specialty Topics.

As an added feature, there will be a “Systems Engineering Professional Development Day” (SE PDD) held on Friday. For the benefits of Chapter members who are interested but cannot make the trip to Ogden, INCOSE -LA is making arrangements for the broadcast of the SE-PDD. When the details are finalized, a Reflector Notice will be made to INCOSE-LA’s distribution. One of the presentations for the SE PDD will be our President, Rick Hefner, speaking with Michael Sturgeon on “Design of Effective Systems Engineering Training for Professionals”.

Friday evening an event dinner will be held at the conference venue with keynote speaker, Dr. Ben Goldberg of Northrop Grumman. Between the day’s presentations and dinner is an opportunity for networking, with hors d’oeuvres supplementing the good company.

The WSRC team is very happy to provide this conference for our western chapter members and invited guests. We hope you will attend in person, and if that is not possible please consider attending the remote location at Dassault Systemes in Long Beach or at The Aerospace Corporation in El Segundo to keep your systems engineering practices current, learning about leading edge practices and solutions to challenges the technical community is facing.

For more information on this exciting and premiere event, please go to the conference website at:
<https://incose-wsrc.eventbrite.com>

August Speaker Meeting A Fresh Look at Systems Engineering — What is it, how should it work?

ABSTRACT:

Does our historical approach to systems engineering fit our 21st century applications? INCOSE’s definition of systems engineering was compared to the aspirations set out in SE Vision 2025 for systems engineering as it ought to be to address modern challenges. Doing this led us to three fundamental realizations:

1. Past systems were mostly deterministic, but 21st century systems are on the other hand increasingly non-deterministic, adaptive or evolutionary
2. Past systems engineering management was implicitly based on a command and control paradigm, 21st century systems engineering must use a more collaborative leadership paradigm
3. Past systems were largely single systems designed to solve specific problems, but 21st century systems are almost invariably networked, and are parts of complex extended enterprises with multiple, often conflicting, stakeholder objectives intimately related to complex societal challenges.

The presentation will use elements of Soft Systems Methodology to understand the implications and consequences of the paradigm shift implied by these realizations. A revised strawman definition of systems engineering is offered for consideration by INCOSE, showing the changes that would be required to take these and related factors into account.

The introduction to this topic will consider changes in what we mean by “system”. The System Definition Survey issued to INCOSE Fellows in December 2016 revealed at least five radically distinct worldviews on systems within a relatively small, but moderately representative, part of the INCOSE community. Scott will describe and analyze the survey results, and comment on differences between the responses from the Fellows and the responses to a similar survey issued to the System Science Working Group a month later. All the worldviews identified offer useful perspectives for systems engineering. Systems engineers need the flexibility to adopt different worldviews for different situations.

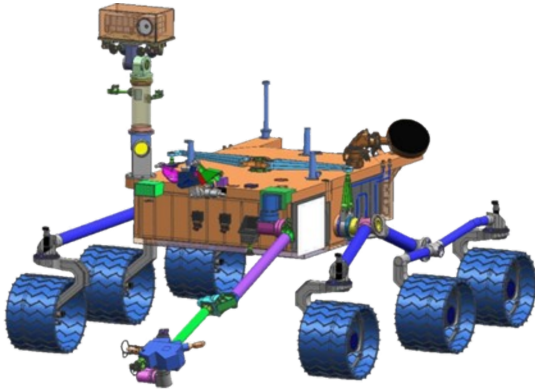
This presentation reflects the work of a team of experienced INCOSE authors: Hillary Sillitto, James Martin, Regina Griego, Dorothy McKinney, Eileen Arnold, Patrick Godfrey, Dov Dori, Daniel Krob and Scott Jackson.

BIOGRAPHY:

Scott Jackson, Ph.D., is an INCOSE Fellow and an independent consultant and researcher working with aircraft manufacturers around the world. His books include Systems Engineering for Commercial Aircraft, Second Edition (2015) published by Routledge (UK) in both English and Chinese. Another book is Architecting Resilient Systems (2010) published by Wiley (US).

(See “August Speaker Meeting” on page 8)

The Martian Curiosity Rover and our Future Systems Engineers



Following in the footsteps of the Science, Technology, Engineering, and Math (STEM) event last year, we can look forward to the seventh annual event this year on October 13, 2018, from 1:00 p.m. to 5:00 p.m. The venue will be the same as in the past: the S-Café of the Northrop-Grumman Corporation. The facility is in Redondo Beach, south of Marine Ave at Simon Ramo Drive.

This outreach to students in the Los Angeles area is sponsored by several professional societies, including INCOSE-LA, and several other prominent aerospace organizations.

The Curiosity Mars Rover continues to prowl the red planet, and this event will feature the latest information, and engineering and science results. There will be a scale model of the landing site along with a selection of hardware and mock-ups.

As was done last year, there will be a variety of activities to entertain the students while piquing their interest in science and engineering. Last year the students enjoyed themselves like a litter of pups with a new squeaky toy. The adults enjoyed the event as well, albeit in a more staid manner. Also, as was the case last year, free bottled water and healthy snacks will be provided.

Members who would like to support INCOSE-LA's participation should contact Fred Lawler at fredlawler@hotmail.com.

For registration and additional information, go to the webpage for the event: <https://tinyurl.com/2i08mars>
COST: FREE (parking and admission)!

If you can spare a few hours on a Saturday afternoon, this is an opportunity for members to volunteer, telling people about systems engineering and INCOSE. To learn about the event last year and the contribution of INCOSE-LA, read the October, 2017 edition of the *Newsletter*, available through the Chapter webpage. Contact Phyllis Marbach (prmarbach@gmail.com) to volunteer and to participate in this invigorating event. As more details become available, they will be published in the *Newsletter* and posted on the Chapter webpage.

Student Division Sponsorship

By Scott Birtalan

Student Division Sponsorship Intro Blurb #1 – Scott Birtalan

Did you know the LA Chapter sponsors three student divisions in the LA/OC area? Starting in 2012, with the kickoff of the University of Southern California division INCOSE-LA has been sponsoring student divisions as part of the greater INCOSE outreach mission. Since then Loyola Marymount University and Cal Poly Pomona have joined with the Chapter to enhance our student-industry partnership in systems engineering.

INCOSE student divisions operate as fully self-sufficient student organizations, providing leadership opportunities to their members and mentor/protégé relationships with both university faculty and INCOSE LA liaisons. Student members gain access to all of the typical INCOSE resources, while taking part in ongoing local area chapter events. Students plan and execute their own activities with chapter sponsorship. Past events have included on campus speaker programs and young professional networking with other local area industry group student organizations. Student participation is also one of the key discriminators in our Chapter's sponsorship of the recurring Conference on Systems Engineering Research. We're looking forward to introducing INCOSE's newest student division in the fall when Cal State Long Beach joins us. Keep an eye out for more news and future opportunities to participate as the Los Angeles Chapter and some of our top local universities continue our partnership for systems engineering excellence.

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SAVE THE DATE

WSRC

Western States Regional Conference

SYSTEMS ENGINEERING OUT W.E.S.T.

Workplace • Environment • Sustainment • Technology

September 20-22, 2018 — Ogden, Utah



Printing courtesy of Orbital ATK

Check out the details at: <https://incose-wsrc.eventbrite.com>

(August Speaker Meeting, continued from page 5)

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, August 7, 2018

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

REGISTRATION:

[http://events.r20.constantcontact.com/register/
event?llr=l4ihvgeab&oeidk=a07efgmjl6w1267f65f](http://events.r20.constantcontact.com/register/event?llr=l4ihvgeab&oeidk=a07efgmjl6w1267f65f)

DIRECTIONS TO THE AEROSPACE CORPORATION

Location: between Imperial and El Segundo Blvd (north to south), between the 405 Freeway and Sepulveda (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 N Aviation Blvd.
5. Bldg. 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. Bldg. 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. Bldg. 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.



Assorted column fillerrs

No detail is too small to overlook

Executive diaper service

Employees must wash hands before handling food with soap and water.

On the second day the knee was better and on the third day it had completely disappeared.

By the time he was admitted his rapid heart had stopped and he was feeling better.

You don't have to be a veterinarian to recognize a meadow muffin when you step in it.

Never slap a man who is chewing tobacco

Always drink upstream of the herd

Never miss a good chance to shut up

Never kick a cow chip on a hot day

What this country needs is dirtier fingernails and cleaner minds

Diplomacy is the art of saying "nice doggie" until you can find a rock

Lettin' the cat out of the bag is a whole lot easier than puttin' it back in.

Don't squat on your spurs

Talk slowly, think quickly

Never approach a bull from the front, a horse from the rear, or a fool from any direction.

Happy as a hog in a turnip patch

As stimulating as a slug of rye on an empty stomach

Pecos Bill's horse was named Widowmaker

Hungrier than a woodpecker with a headache

Mom's Home Cookin'

Report from hardware store: they are not making yard sticks any longer.

This is my step ladder. I never knew my real ladder.

Frog parking only. All others will be toad.

Ban pre-shredded cheese – make America grate again.

Imagination is more important than knowledge. Albert Einstein

Technology is a useful servant but a dangerous master. Christian Lous Lange

New technology is common, new thinking is rare. Sir Peter Blake.

The single biggest problem in communication is the illusion that it has taken place. George Bernard Shaw

Technology is nothing. Steve Jobs

Due to the inexact correction of Leap Years, the year 4095 will need to have 364 days.

I like Twitter. It's like gossiping over the world's longest backyard fence. Steven King tweet

THIS SPACE AVAILABLE

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MARKET YOUR PRODUCT?

LOOKING FOR A PLACE TO
REACH OUT TO OVER 400 SYSTEMS
ENGINEERING PROFESSIONALS?

LOOKING FOR A PLACE TO
TELL ABOUT YOUR EMPLOYMENT
OPPORTUNITIES TO A
HIGHLY FOCUSED GROUP?

CONTACT THE INCOSE LOS ANGELES
NEWSLETTER TEAM AT jorg.largent@incose.org

PICTURE YOUR MESSAGE HERE!

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) to update your information.

Name	Organization
Arbi Moradian	John Hopkins University
Rhena Beth Mateo-Caniyas	
Alek Denslow	Northrop Grumman Corporation
David Harris	Embry-Riddle Aeronautical University
Brent Smith	Embry Riddle Aeronautical University
Bradley Daniel	Embry Riddle Aeronautical University
Kelly Morrell	Performance Software Corp
Ken Kubo	Northrop Grumman Corporation
Daniel Barnett	SAIC
Michael Calabrese	Beckman Coulter, Inc.
Tuong Bui	SAIC
Peter Klaerner	Kulicke and Soffa
Don Maddock	LinQuest Corporation
Matthew Jacobs	Embry Riddle Aeronautical University
Hadi Alshemmeri	University of Texas at El Paso (UTEP)
Jorge Paredes	Embry Riddle Aeronautical University
Brent Reimer	SAIC
Fahed Alkhaldi	University of Texas at El Paso (UTEP)
Robert Montgomery	L3 Technologies
Joey Aguilo	Space and Missile System Center
Mohammad Alfadhli	University of Texas at El Paso (UTEP)
John Eblen	LinQuest Corporation
Elizabeth Gollnick	Embry Riddle Aeronautical University
Anthony Arnold	
Jonathan Crow	Embry Riddle
Jorge Cruz	Embry Riddle Aeronautical University
Andrew Palmer	California Polytechnic State University
Jack Lam	United States Navy
Sarah Bergagnini	
Insoo Shin	SAIC
Sean Story	Loyola Marymount University

Not a member? Join INCOSE!

Learn more about becoming a member by clicking on <http://www.incose.org/membership/valueofmembership.aspx>

INCOSE-LA Chapter NEWSLETTER

Vol. 16: Issue 4, August — September 2018

Systems Engineering Professional Development Day WSRC Satellite Site in Long Beach

There will be a "Systems Engineering Professional Development Day" as a part of the Western States Regional Conference. This one-day event will be held on Friday, September 21, 2018. The event will consist of a series of presentations and will feature Garry Roedler, INCOSE President, as the keynote speaker.

People who are interested in furthering their careers and would like to take advantage of this outreach are welcome to participate remotely at the Dassault facility in Long Beach. Mark TenEyck, Senior Sales Executive with Dassault and Programs Director for the Los Angeles Chapter has made the arrangements for the use of their facility.

The Chapter will send out a Reflector Notice with more details (exact times, cost, registration, et al) as soon as they are established by the WSRC Board of Directors.



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



The menu for the IS2018 banquet

2018 Board of Directors

Elected Officers			Elected At-large Directors		
President	Rick Hefner	rhefner@caltech.edu	Membership	Karen Grothe	Ksgrothe@yahoo.com
Vice-president	Mark McKelvin	Mark.I.mckelvin@aero.org	Programs	Mark TenEyck	Mark.teneyck@3ds.com
Immediate Past-president	Phyllis Marbach	prmarbach@gmail.com	Systems Engineering Education	Tony Magomo	tmagorno@gmail.com
Secretary	Phyllis Marbach	prmarbach@gmail.com	Ways and Means	Stephen Guine	Stephen.Guine@ngc.com
Treasurer	Lin Yi	Lin.yi.dr@ieee.org	Communications	Neil Wigner	Neil.wigner@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

INCOSE-LA Chapter NEWSLETTER

Vol. 16: Issue 4, August — September 2018

INCOSE-LA Chapter NEWSLETTER

Vol. 16: Issue 4, August — September 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 . Like us on Facebook

Third Quarter Strategic Planning Meeting

The members' opportunity to be heard and contribute

Saturday, August 11, 2018

9:00 a.m. — 3:00 p.m.

Manhattan Beach Community Church

Lunch included

No cost for members

Details in work and a Reflector Notice will be e-mailed as they become available

August Speaker Meeting

A Fresh Look at Systems Engineering —

What is it, how should it work?

By Dr. Scott Jackson

Tuesday, August 7, 2018

5:30 p.m. — 7:30 p.m.

The Aerospace Corporation

El Segundo, California

See page 5 for details; to register go to:

<http://events.r20.constantcontact.com/register/event?llr=l4ihvgeab&oeidk=ao7efgmjl6w1267f65f>

September Speaker Meeting

Bill Good will be the speaker

Tuesday, September 11, 2018

Details in work and a Reflector Notice will be e-mailed as they become available

Western States Regional Conference

September, 20 — 22, 2018

Ogden, Utah

See articles on pages 1, 5, and 7

For more details go to <https://incose-wsrc.eventbrite.com>

Seventh Annual Mars, Curiosity, and STEM

Saturday, October 13, 2018

See article on page 6

Details in work and a Reflector Notice will be e-mailed as they become available

Annual Holiday Party

Tuesday, December 8, 2018

5:30 p.m. — 7:30 p.m.

Del Rey Yacht Club

Marina Del Rey, California