Meet the Candidates!  
2015 Chapter Elections

The transition from 2014 to 2015 quickly approaches. Your 2014 Board of Directors (BoD) calls on you, the members of the Chapter, to take time to read your slate of candidates for the 2015 BoD. These candidates are presented to you on the pages that follow.

The success of the Los Angeles Chapter is driven by two things: our officers and our members. INCOSE has acknowledged the Chapter with the Gold Circle Award every year since 2003 and with the President’s Award for Most Outstanding Chapter in 2008 and 2012 (chapters are not considered for repetition more frequently). However, more important than awards are the services and value provided to and available to the Chapter members.

For those who are not familiar with the process of our Chapter elections, an explanation: the BoD consists of a voting body and an appointed body. The voting body consists of ten positions, five of which are the Executive Officers and five of which are the At-large Directors. The Executive Officers hold one-year terms while the At-large Directors hold two-year terms. The two-year terms are staggered to preserve Chapter knowledge from year to year. The appointed body consists of managers and chairpersons who are recruited to execute specific functions such as producing the Newsletter or the Reflector.

(See “Election” on page 2)

2015 Mini-Conference
March 14, 2015
Theme: One Discipline/Global Value: Fundamentals, Applications, and Innovation

Efforts for planning the 2015 LA Mini-Conference are in full swing with the event just a few months away. It will be held on Saturday, March 14, 2015 at Loyola Marymount University. The mini-conference theme is “One Discipline/Global Value: Fundamentals, Applications, and Innovation.” The theme reflects the global scope on which systems engineering is connecting all disciplines, manifested through fundamentals, applications, and innovation. Fundamentals, applications, and innovation are not three tracks; rather, these elements of the theme are meant to add focus to the theme because “one discipline/global value” by itself would likely be too ambiguous. The tracks have not been pre-designated; instead, they will be determined based on the variety and relative popularity of the abstracts that are received. Abstracts will be evaluated in December. Keynote candidates are being contacted, but a specific keynote candidate has not been selected. Please notify Helayna Roberts, Technical Program Chairman, if you have a contact that may be interested. Helayna.Roberts@ngc.com.

(See “Mini-Conference” on page 10)

HOW TO VOTE:
Go online at www.incose-la.org.
Voting period: December 1-December 30

IMPORTANT CONFERENCE DATES:
ABSTRACT SUBMITTAL December 1, 2014
ACCEPTANCE NOTIFICATION January 1, 2015
FINAL PRESENTATION DUE February 23, 2015

Inside This Edition

Features
2015 Chapter Elections 1
September Networking 4
November Speaker Meeting 9
New Members 11
Help Wanted 8
Upcoming Events Back page

Education/Conferences
2015 Mini-Conference 1, 7
PPI Requirements Analysis and Specification Writing 5
CTI CSEP Training 5
UCI Systems Engineering Certification 6
PPI Systems Engineering 8
Holiday Party 10

Whom to Contact
INCOSE-LA Board Members 10
Each functional area generally falls under the oversight of one of the directors. We want to stress the importance of the appointed body: it is the primary method for someone to engage in the operations of the Chapter and to progress into a position of the voting body.

An election committee reviews a preliminary list of names, which is constructed from the recommendations made by current and past officers, directors, chairpersons, and managers. Recommendations are based upon many factors that range from participation as an attendee (speaker meetings, tutorials) to volunteering in capacity. The committee also considers those who are willing to serve on the Board. As Paul Cudney, a past Membership Director, so eloquently explained, “Serving on the Board is an excellent, low-risk method of gaining direct job-related experience.” The committee then decides upon a slate of candidates.

It is now up to you, our members, to vote for the 2015 BoD. We proudly introduce to you our slate of candidates for next year’s Board of Directors.

**Candidate for President:**

**Stephen Guine**

I believe in systems engineering and I believe in INCOSE.

In an increasingly interconnected and complex world, I believe that the discipline, science, and execution of systems engineering will be a key determinant in the ongoing and emerging quality of life in our communities and our abilities to pursue our professional and personal passions.

Therefore, as President of INCOSE-LA, I hope to build on the solid foundation of leadership that has preceded me in this Chapter and leverage our shared skills and experience to help push the message of systems engineering value into the "non-traditional" domains. I see this as a critical exercise in ensuring that our chapter remains vibrant and vital in the greater Los Angeles area. Additionally, I feel that our current member base will find significant value in being exposed to the challenges and solutions inherent in these other domains and discover useful tools and approaches that can be leveraged immediately in our own professional endeavors.

**Candidate for Vice-president:**

**Terry Rector**

Terry Rector has over thirty years of experience in the aerospace industry, holding positions of increased responsibility as a systems engineer, Program/Project Manager, Space Systems Operator, and Intelligence Analysis. Terry retired from the United States Air Force and currently is a Senior Project Engineer at The Aerospace Corporation, El Segundo, California.

Terry serves as Aerospace’s Protected Tactical Modem and the program test lead supporting the Space and Missile Systems Center’s MILSATCOM Protected Tactical Service programs as well as supports Small Business Innovated Research efforts. In this role, Terry is supporting the research and development, requirements generation, integration and testing of MILSATCOM programs and projects, multiple contractors and technologies.

Prior to working for Aerospace, Terry was the Vice President of Government Relations for a high tech small business specializing in 3-D chip stacking, cognitive data processing, and tactical sensors for several different land, air and space platforms. With over five years experience in small business, Terry understands the value of successful leadership and management of short schedules, tight budgets, and highly complex technical systems delivered by highly diverse, geographically separated teams comprised of various engineering disciplines. Lastly, Terry served for more than twenty years in the United States Air Force in communications, space, and intelligence systems.

Terry also servers as vice-president of two homeowners association where he has responsible for executing decisions in response to the well being of over 2000 home owners. Terry is an active member of the Air Force Association, the Armed Forces Communications and Electronics Association, and the Institute of Electrical and Electronics Engineers.

Terry joined INCOSE-LA in 2005 and has supported the chapter on several occasions. He is best suited for locating sponsors and exhibitors for the various activities that INCOSE-LA sponsors. He has served as the Sponsorship and Exhibitor Chair for the INCOSE-LA 2009 Mini-Conference, the Conference for Systems Engineering Research (CSER) 2011 and CSER 2014 Conference Co-Chair, and has been ask to Co-Chair CSER 2017. Lastly, he has served in numerous leadership positions planning other conferences such as the Responsive Space and the Small Satellite Conference.

Terry earned his education attending college via night and weekend classes, completing a Bachelor of Science Degree in Electrical Engineering from Southern Illinois University, a Master’s of Science Degree in Space Systems from the University of North Dakota, and a Master’s of Science Degree in Program Management from the prestigious Whittemore School of Business and Economics, The University of New Hampshire, where he earned his Project Management Professional certifications.

**Candidate for Treasurer:**

**Harvey Soldan**

Harvey Soldan is a senior systems engineer at the Jet Propulsion Laboratory (JPL) and has over 34-years of experience in NASA, military, and commercial systems.

He joined NASA/JPL as a contractor in 1987 and is currently the Deep Space Network (DSN) Systems Engineer for the DSN Aperture Enhancement Project, which is adding new (See “Elections” on page 3)
Phyllis has been active in the INCOSE-LA Chapter presenting at the Mini-Conference in 2012, running a panel discussion at the Mini-Conference in 2013, helping run the Huntington Beach Remote Site during 2014 and hosting the August 2014 networking event in Orange County. She joined the INCOSE Agile Systems and System Engineering Working Group in January 2013 and is currently a project lead. Phyllis recently volunteered to be the registrar in-training for the 2015 Mini-Conference.

Candidate for Director of Communications: Bob Noel

Bob Noel went to college at the University of California, Irvine campus pursuing first a BS and then a MS in Physics. In 1985, Bob hired into what was then the Anaheim site of Rockwell International. His first job entailed the calculation of interactions between military electronics and radiation from solar and nuclear sources. Five years later, Bob transferred to the Rockwell Science Center and helped develop infrared detectors for space exploration and missile defense. In 1998, Bob became an engineering functional manager for Test and Evaluation. His primary duty in that job, a role he greatly enjoyed, was to develop the skills of the people that were members of his group. After a successful stint on the proposal team, Bob joined the Joint Tactical Radio System (JTRS) program as an IPT Lead in the area of Test and Evaluation. A major part of this work involved managing suppliers (Raytheon, Rockwell Collins, BAE Systems and Northrop Grumman) to jointly develop technical plans and test program goals. He also served as partial developer of SOWs for these subcontractors. In October 2005, Bob left the JTRS program and is now assigned to a functional systems engineering group in Huntington Beach with several assignments including leading and teaching systems engineering leadership, performing systems engineering assessments on programs, serving as a subject matter expert for various programs for systems engineering and integrating suppliers in system engineering efforts. During these work years, Bob returned to school and received two more master’s degrees, one in Electrical Engineering and one in Management.

LEARN MORE ABOUT ALL THE CANDIDATES AND VOTE AT THE CHAPTER WEBSITE!
http://www.incose-la.org/

Candidate for Director of Membership: Phyllis Marbach

Phyllis Marbach is a Senior Software Engineer for The Boeing Defense Space & Security. Phyllis has over thirty years of experience in aerospace programs; including satellites, chemical lasers, the International Space Station, and various propulsion systems. Currently she is working with Boeing Commercial Airline projects applying Systems Engineering Best Practices and the Boeing Agile Scrum for Engineering. Phyllis has been a Boeing Agile Coach for Unmanned Air Systems, Networked Radios, and research programs. Ms. Marbach, a Certified Scrum Master, a Certified Product Owner and Scaled Agile Coach, holds an MS degree in engineering from UCLA. She has been a member of INCOSE for 3 years and is an author of 3 papers and numerous presentations on NCOIC in 2006 and more recently agile systems engineering presented to local engineering groups, international conferences and publications.
The September networking event featured the traditional networking and camaraderie, but had the added feature of bowling! As noted by the score board, President Mike Wallace was the champion bowler.
Las Vegas, NV
January 26 - 30, 2015

“Requirements Analysis and Specification Writing are sciences practiced by many, mastered by surprisingly few. And yet, the payoff from achieving excellence in these areas is large.”
- Robert Halligan, FIE Aust CPEng

Upcoming RASW Courses

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<tr>
<th>Location</th>
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<tr>
<td>Las Vegas, NV</td>
<td>January 26 - 30, 2015</td>
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<tr>
<td>Boston, MA</td>
<td>April 13 - 17, 2015</td>
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<tr>
<td>Las Vegas, NV</td>
<td>August 24 - 28, 2015</td>
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<tr>
<td>Las Vegas, NV</td>
<td>October 19 - 23, 2015</td>
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For the complete course description, or to register, please visit: www.ppi-int.com/rasw

CSEP Exam Preparation Training

Las Vegas, NV
December 1 - 4, 2014

Learn valuable skills and improve your career prospects by becoming INCOSE SEP Certified.

INCOSE LA members receive a $200 discount

Register today at: www.certificationtraining-int.com

Upcoming 4-Day Deliveries

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<td>February 9 - 12, 2015</td>
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<td>March 23 - 26, 2015</td>
<td>Los Angeles, CA</td>
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<td>April 27 - 30, 2015</td>
<td>Albuquerque, NM</td>
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<td>May 11 - 14, 2015</td>
<td>Denver, CO</td>
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Systems Engineering Online Certificate Program

- Apply techniques to a broad range of industries
- Complete the entire program online
- Transfer specific coursework towards the Professional Master’s Degree in Applied Systems Engineering (PMASE) from Georgia Institute of Technology
- Improve your organization’s operational efficiency
- Prepare for INCOSE certification

Courses start January 2, 2015

For more information:
Julie Pai, Program Representative
julie.pai@uci.edu • (949) 824-6333

UCI Extension
extension.uci.edu/systemseng
International Council on Systems Engineering (INCOSE)
LOS ANGELES CHAPTER

is proud to host the

2015 Mini-Conference

Saturday, March 14, 2015
Loyola Marymount University (LMU), 1 LMU Drive, Los Angeles, CA 90045


**Systems Engineering** is a vital discipline for the successful delivery of large and complex systems. Systems engineering is a global discipline centered on concepts and fundamentals that are adaptable for many different applications to solve worldwide concerns and create value.

Attend this special one-day event for an opportunity to:
- Explore systems engineering as a discipline with many applications around the world
- Discuss and learn about innovated applications of systems engineering to new domains and challenges
- Learn lessons from practical applications of systems engineering and the value provided
- Network with fellow professionals

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<tr>
<td>INCOSE Member</td>
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<td>Non-Member</td>
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<tr>
<td>Student / Senior Member</td>
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If you are interested in presenting, please address inquiries to mini-conf@incose-la.org.
For additional information, visit [http://www.incose-la-miniconference.org](http://www.incose-la-miniconference.org)
HELP WANTED!
JOIN THE INCOSE-LA NEWSLETTER TEAM

Would you like an opportunity to hone your writing and proof reading skills while learning about the discipline and about the chapter? Can you spare a few hours every other month or so? If so, you can help with the Chapter’s award-winning Newsletter. Contact Jorg Largent at jorg.largent@incose.org.

The INCOSE LA Chapter has a unique role in promoting the guidance and discipline of systems engineering in the southern California region. In the interest of making the values and methodologies of systems engineering more accessible to high school students, a tiger team was established earlier this month aiming to develop a “Mini-Handbook” to support a systems engineering competition in 2015. Since its establishment, the team conducts meetings every Friday from noon to 1:00 p.m. At the current state, the team has completed the skeleton of the handbook and is ready to start the content development. Different from the INCOSE Handbook, this version is in a mission to bring fun facts and intriguing examples to encourage students’ thinking like a systems engineer. The team will eventually interact with local high school teachers and students to coach and facilitate the knowledge transfer in a form of workshop.

For more information, go to the Orange Open Competition in Science & Technology website at http://www.orangeopen.org.
The INCOSE-LA Speaker Meeting was held on the evening of Veterans Day and there were about 15 people in attendance in addition to the people that called in. After retiring from the Air Force at Missile Defense Agency (Huntsville, Alabama) in June and moving to Southern California, this was my first opportunity to attend an INCOSE-LA meeting. The attendees were all very welcoming and informative.

Mike Wallace (INCOSE-LA President) kicked off the meeting welcoming everyone and introducing nine new members. He acknowledged that the organization continues to reach out to academia with seven of the nine new members joined as students. Mike also mentioned some upcoming events for INCOSE-LA chapter, including the Holiday Party on December 5, 2014 at the Del Rey Yacht Club, the Town Hall Meeting for new officers on January 13 2015, and the 2015 Mini-Conference on March 14, 2015. He reminded everyone that the abstract for the Mini-Conference is due on December 1, 2014.

After the kickoff, a panel was formed to discuss INCOSE Vision 2025 and how we plan to support the Imperatives. The members of the panel included Eric Belle (online), Stephen Guine, Phyllis Marbach, Padman Nagenthiram, and Mike Wallace.

Padman began with the introduction of the INCOSE Vision 2025 and how we plan to support the Imperatives. The members of the panel included Eric Belle (online), Stephen Guine, Phyllis Marbach, Padman Nagenthiram, and Mike Wallace.

Padman began with the introduction of the INCOSE Vision 2025 and summarizing the 56-page document. Only seven systems engineering experts produced the document so it needed more diverse inputs. The purpose of the document is to inspire and guide the direction of systems engineering access stakeholder communities. There are three main sections of the document:

1) Global Context, which includes global environment and human societal needs;
2) Current State, which covered historical and current systems trends; and,
3) Future State, which is addressing gaps and challenges in systems engineering practices and methods.

The document identified six imperatives that were individually discussed by each panel member. The first Imperative is “Expanding Application of systems engineering across industry domains.” INCOSE-LA has been too focused on aerospace, but it can support this imperative by diversifying speaker meetings, promoting collaboration with other professional societies.

The second imperative is “Embracing and learning from the diversity of systems engineering approaches.” We need to find a common ground to understand other processes that are not necessarily identified as systems engineering processes in healthcare and biomedical, automotive industry, energy, and transportation.

The third imperative is “Applying systems engineering to help share policy related to social and natural systems.” We need to understand domains and solution spaces that encompass traditional systems engineering products.

The fourth imperative is “Expanding the theoretical foundation for systems engineering.” We need to promote bridging the gap between industry and academia.

The fifth imperative is “Advancing the tools and methods to address complexity.” We need to learn to deal complexity without repeated trial and error.

Finally, the sixth imperative is “Enhancing Education and Training to grow systems engineering workforce that meets the increasing demand.” The vision in 2025 is to have a workforce that will be more diverse, globally dispersed and distributed, and multi-disciplinary.

Systems thinking allow us to have a better understanding of the direction we are going in order to implement these imperatives. The breakdown of these imperatives has been very helpful to the meeting attendees and there were questions on how we, as a local organization, can reach out to academia and different industries. As a systems engineer in space systems and a PhD candidate in Systems Engineering, it was refreshing to hear the different imperatives to promote systems engineering diversity.

"Rabbit's clever," said Pooh thoughtfully.
"Yes," said Piglet, "Rabbit's clever."
"And he has Brain."
"Yes," said Piglet, "Rabbit has Brain."
There was a long silence.
"I suppose," said Pooh, "that's why he never understands anything."
— A.A. Milne, Winnie-the-Pooh
A panel discussion will be a major part of the Mini-Conference, and preparations for that are underway as well.

Publicity efforts, led by Publicity Chairman Christine Ito and Co-Chairman Stephen Guine, are realizing an expanding horizon with each new company or school point of contact received. Please contact either Christine or Stephen if you know of a contact that could help spread the word about the Mini-Conference.

For the first year, the Mini-Conference has its own dedicated website, www.incose-la-miniconference.org. Thanks in large part to Mark Gallo, the Mini-Conference Communications Chairman, the website’s sleek, crisp, modern look has given the mini-conference’s online image a much-needed facelift. The website has made the process for members to upload necessary information much more streamlined while making it easier for potential participants to obtain a variety of information about the mini-conference. Please give it a look!

Going into the Christmas season, plenty of work still remains to get us in good position for our state of preparation early next year. If you would like to get involved in the mini-conference, or know someone who would, please contact Karen Miller at karmill888@aol.com.

You are invited to the INCOSE-LA Chapter Holiday Party!
Friday evening, 5:00 p.m. December 5, 2014
Location same as last year at the elegant Del Rey Yacht Club, 13900 Palawan Way Marina Del Rey
Free for members — a nominal charge for guests and non-members
Great people ♦️ Fine food ♦️ Lots of Fun
White Elephant Gift Exchange
An INCOSE-LA Tradition!
RSVP Required; go to the INCOSE-LA website http://www.incose-la.org/ to RSVP and for more details

MINI-CONFERENCE WEBSITE NOW OPEN!
FOR DETAILS AND EARLY REGISTRATION, GO TO:
www.incose-la-miniconference.org

INCOSE-LA Chapter NEWSLETTER
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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Company or Organization</th>
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<tbody>
<tr>
<td>Stacy Graham</td>
<td>Industrial Engineer</td>
<td>PIH Health</td>
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<tr>
<td>Earnetta Cotton</td>
<td>MILSATCOM Requirements Development Lead and Process Owner</td>
<td>TASC</td>
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<tr>
<td>Matthew Gann</td>
<td>Senior Systems Engineer</td>
<td>Raytheon</td>
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<td>Briahna Jarchio</td>
<td>Financial Aid Counselor</td>
<td>Loyola Marymount University</td>
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<td>David Gerda</td>
<td>Project Officer</td>
<td>USN</td>
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<td>Rafael Hernandez</td>
<td>Principal Systems Engineer</td>
<td>Raytheon</td>
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<tr>
<td>Mohsen Jabbar-tabrizi</td>
<td>Sr System Safety Designer</td>
<td>Sytra Consulting</td>
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<tr>
<td>Cindy Ellis</td>
<td>Staff Systems Engineer</td>
<td>Advanced Sterilization Products</td>
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<td>Peggy Lou</td>
<td>Principal Systems Engineer</td>
<td>LinQuest Corporation</td>
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<td>Michael McGarvey</td>
<td>SE</td>
<td>Northrop Grumman Aerospace Systems</td>
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<td>Dominique Acuna</td>
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<td>Khaled Alsultan</td>
<td>Student</td>
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<td>Adan De La Cruz</td>
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<td>Osvaldo Gutierrez</td>
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<td>Mark Nielsen</td>
<td>Principal Engineer</td>
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<td>Meshail Almofawez</td>
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<td>Kirkland Brown</td>
<td>Systems Integration and Test Engineer 3</td>
<td>Northrop Grumman Corporation</td>
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<td>Cameron Miller</td>
<td>Systems Engineer Sr</td>
<td>Lockheed Martin</td>
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<td>Julie Foster</td>
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<tr>
<td>James Newell</td>
<td>Systems Engineer</td>
<td>Moog Inc.</td>
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<tr>
<td>Johnathan Jones</td>
<td>Systems/Process Engineer</td>
<td>Univ Surv Sys</td>
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DON’T FORGET TO VOTE!
LEARN MORE ABOUT ALL THE CANDIDATES AND VOTE AT THE CHAPTER WEBSITE
http://www.incose-la.org/

Stay Connected
Get the latest on INCOSE-LA happenings in the Reflector e-mails
If you wish to be placed on our e-mail distribution, contact Susan Ruth at susan.c.ruth@aero.org

“"The whole of science is nothing more than a refinement of everyday thinking.”
Albert Einstein

“It is more fun to talk with someone who doesn't use long, difficult words but rather short, easy words like ‘What about lunch?’”
– A.A. Milne, Winnie-the-Pooh
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 details on Chapter-sponsored events and registration, go to http://www.incose-la.org

<table>
<thead>
<tr>
<th>Event</th>
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| **December Holiday Party**                                 | Date: Friday, December 5, 2014  
Marina Del Rey Yacht Club  
*See Reflector Notice in your email for details* |
| **INCOSE International Workshop**                          | Date: Saturday through Tuesday, January 24 – 27, 2015  
Torrance, California  
*Check the INCOSE website for details* |
| **The INCOSE-LA Mini-Conference**                          | Date: March 14, 2015  
Time: 7:30 a.m. – 5:00 p.m. |
| **INCOSE International Symposium**                         | Date: July 13 – 16, 2015  
Seattle, Washington  
*Check the INCOSE website for details* |