The transition from 2011 to 2012 quickly approaches. Your 2011 Board of Directors (BoD) calls on you, the members of the Chapter, to take time to read your slate of candidates for the 2012 BoD. These candidates are presented to you on the pages that follow.

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. 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 just about any capacity and who is willing to volunteer on the Board. Volunteer? Yes. As Paul Cudney, our 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 2012 BoD. We proudly introduce to you our slate of candidates for next year’s Board of Directors.

**HOW TO VOTE:**
Go online at [www.incose-la.org](http://www.incose-la.org).
Voting period: December 1-December 30
**John Silvas**  
**Candidate for President**  
(one-year term)

John Silvas is a Senior Associate at Booz Allen Hamilton, currently supporting the GPS Directorate at the Space & Missile Systems Center as the System Integration Lead on the System Engineering and Integration (SE&I) contract. In this role since October 2008, John has been leading a team of enterprise-focused integrators, with such functions as future GPS capability delivery planning and analysis, thread analysis, giver-receiver analysis, and early-lifecycle risk reducing system integration demonstrations. The common focus for all of these functions is to work across system and segment boundaries (i.e., external interfaces) to ensure the new physical parts (satellites, control software, user equipment) integrate properly with each other and ultimately with the currently operational system.

John joined Booz Allen in June 1998 in McLean, Virginia as a consultant and has over 18 years of systems engineering experience, working mostly on large scale Department of Defense programs in the areas of requirements analysis, architecture development, technical management and control, systems engineering process improvement, and system integration. Prior to joining Booz Allen, he served in the US Air Force during the first Gulf War working in satellite communications — three years on active duty and five years as a reservist. He has a bachelor’s degree from Virginia Tech in Industrial Design, and obtained his INCOSE Certified Systems Engineering Professional certification in Jan 2006.

John joined INCOSE in early 2004 to gain a better understanding of the overall systems engineering process, as well as increase his credibility with clients and colleagues. Shortly after giving a presentation on GPS at one of the INCOSE-LA Chapter monthly speaker meetings in September 2008, John became the Chapter’s Programs Director serving for two years (2009-2010). More recently, he has served as the Vice President for the INCOSE-LA Chapter in 2011.

He is also a regular guest lecturer in the University of Southern California’s Viterbi School of Engineering master’s program where he lectures on interface analysis and systems integration helping to provide students with real-world examples and context for why these functions are so important in systems engineering.

**Terry Rector**  
**Candidate for Vice-president**  
(one-year term)

Terry Rector is the Director of Government Relations at Physical Optics Corporation, Inc. (POC), in Torrance California. In this highly dynamic role, he manages Small Business Innovation Research (SBIR) Phase I and II projects, acting as intermediary between the company’s Principle Investigators and the Department of Defense, commercial, and civil agencies that participate in SBIRs. Additionally, his role requires Terry to oversee continued development of technology and commercialization opportunities while working interactively with Technical Directors, Vice Presidents/General Managers, and Corporate Marketing personnel.

Prior to joining POC in early 2011, Terry’s experience included Director of Business Development for Com Dev, USA, and Senior Systems Engineer at Northrop Grumman Aerospace Systems, after completing a highly successful military career. He has over 25 years in systems engineering, project management and business development – advocating systems to make the war fighter’s job safer and easier.

Terry has two A.S. degrees from the Communicate College of the Air Force in Space Systems Technology and Air Field Management, a B.S. degree in Electrical Engineering from Southern Illinois University and two Masters Degrees – one from the University of North Dakota in Space Systems and another from the University of New Hampshire in Program Management. Additionally, Terry has earned many honors and awards from AFCEA, AFA, AOC, and the Air Force.

(Continued on page 3)
Alan Kirschbaum's active engagement in systems engineering practice stretches over the past 15 years. From 1999 to 2010 he provided space systems acquisition management consulting, defense system planning analysis, and engineering concept design services to Department of Defense clients on behalf of AT&T Government Solutions. He performed process analysis and improvement services for Air Force Space and Missile Systems Center (SMC) systems engineering and acquisition policy activities. He authored strategic planning and execution roadmaps for acquisition wings and development planning organizations. Additionally, he managed broadly ranging systems and component technologies developments for risk reduction, including modeling and simulation, command and control integration, remote sensing, and space operations.

Prior to his role as a consultant for AT&T, he served as Director of Systems Engineering for all of SMC, beginning in 1995. There, he devised and implemented system-of-systems integration and interoperability solutions across Air Force space programs. He formulated the basic charter for the Space Mission Integration Office and put into practice the DoD Joint Technical Architecture for Air Force space systems at SMC. He tailored Performance Based Business Environment and Operational Safety and Suitability policies to Air Force space systems and was the INCOSE Corporate Representative.

Earlier, he functioned as associate director for technology, at DoD’s Ballistic Missile Defense Organization, he headed the Seismic Systems Acquisition Division at Air Force Technical Applications Center, and he was the advanced systems integration manager in the Secretary of Air Force Office of Research. In all, he has enjoyed 39 years experience in DoD systems management and engineering including complex project management, advanced research and development, technology planning, and engineering organization leadership. His technical expertise is in astrodynamics, space remote sensing, controls, and communications with recognized mastery of aerospace and information systems design, test, and production.

In terms of INCOSE-LA Chapter activities, he is currently chapter secretary and has recently served on the technical program committee for INCOSE-LA 2009 and 2010 Mini-Conferences. He also is an Associate Fellow, American Institute of Aeronautics and Astronautics, a Senior Member, American Society of Mechanical Engineers and a Senior Member, Air Force Association. He’s a registered Professional Engineer (Ohio) and is the recipient of the Legion of Honor.

Alan holds a bachelor’s degree from the University of Maryland in Mechanical Engineering and an M.B.A. from New Mexico Highlands University. He’s a graduate of the Defense Systems Management College and the National War College’s National Security Management program.

Alan is currently serving on the Board of Directors as the Chapter Secretary.

Harvey Soldan
Candidate for Treasurer
(one-year term)

Harvey Soldan is a systems engineer at The Jet Propulsion Laboratory and has over 30 years experience in NASA, military, and commercial systems. He joined The Jet Propulsion Laboratory as a contractor in 1987 and is currently the Deep Space Network System Engineer for the DSN Aperture Enhancement Task. Previously he was the Deep Space Network Tracking, Telemetry and Command System Engineer. Harvey has worked on many military and commercial programs specializing in technical publications, testing, communications and systems engineering. Prior projects were for Raytheon, Walt Disney and Gould NAVCOM. Harvey received his B.A. from The Johns Hopkins University in Biology with a Chemistry minor. He is currently the INCOSE-LA treasurer.

*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

susan.c.ruth@aero.org
Michael Maar is an Associate Technical Fellow with The Boeing Company. He is currently a systems engineer for the Ground Mobile Radio, and Joint Enterprise Network Manager. He is also working on satellite navigation system research and development. He joined Rockwell International in 1985. Over the years, he has led development of various types of communications and signal processing systems, including international communication satellites, ground and space-based surveillance systems, space and airborne laser, and space shuttle orbiter mission data processing.

Michael was a technical chair for the INCOSE LA Mini-Conference in 2005. He supported the mini-conference in 2009 as finance/risk chair. He was a reviewer of the technical papers and the finance chair for CSER 2006. He was the finance chair for CSER 2008. He has been the INCOSE Awards manager since 2007. Michael is currently serving the Chapter as the Ways and Means Director.

He has participated as a judge for First Lego League and First Tech Challenge robotics competition events. Michael holds a B.S.E.E. (First Class Honours) from Hong Kong University, M.S.E.E. from George Washington University, and M.B.A. from Virginia Polytechnic and State University.

Dr. Larry Earnest is a senior systems engineer at Northrop Grumman where he has performed critical systems engineering work on the B2 Stealth Bomber, F/A-18 Super Hornet, Global Hawk, Homeland Security Programs and other complex systems. Dr. Earnest recently earned his doctorate in Systems Engineering at Stevens Institute of Technology in Hoboken, New Jersey. He earned his M.B.A. from the University of Redlands, and a B.S. in Industrial Technology Electronics, from California State University, Long Beach. His research interests are process architecture and cognitive systems engineering.

In addition, Dr. Earnest has been an active participant in the INCOSE Lean Systems Engineering Working Group as well as a member of National Defense Industry Association, Society For Design and Process Science, and Systems Engineering Advisory Group.

The Board of Directors wishes to welcome the following new members in the Los Angeles Chapter of INCOSE:

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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Company</th>
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<tbody>
<tr>
<td>Michael Sievers</td>
<td>Senior Systems Engineer</td>
<td>Jet Propulsion Laboratory</td>
</tr>
<tr>
<td>John Campbell</td>
<td>Systems Test/Verif. &amp; Valid. Engineer</td>
<td>Man Tech International/ Jet Propulsion Laboratory</td>
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<tr>
<td>Delia Reyes</td>
<td>Student</td>
<td>University of Southern California</td>
</tr>
<tr>
<td>David Cordell</td>
<td>Senior Systems Engineer</td>
<td>IT/NASA/Dell Federal</td>
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In Memoriam

INCOSE Midwest Gateway Chapter and members of The Boeing Company Systems Engineering community wish to mark the passing of Bill Schoening.

Bill was a Technical Fellow of Boeing, a Past President of the International Council on Systems Engineering (in 1997), an INCOSE Fellow, a Founding Member of the Midwest Gateway St. Louis Chapter, the first elected President of the Midwest Gateway Chapter (1992), and was serving as chapter Treasurer at the time of his passing. He was an avid birder and juggler. Bill passed away on November 5, 2011 at Missouri Baptist Hospital, St. Louis. He was 69 years old.
Interview Skills Workshop

Sponsored by:
- American Institute of Aeronautics and Astronautics
- Institute of Electronic and Electrical Engineers, Coastal Los Angeles Section
- International Council on Systems Engineering, Los Angeles Chapter
- Massachusetts Institute of Technology (MIT) Club of Southern California (CSC)

Presenter: Scott Olsen, of The Olsen Group

PARTICULARS

When: Saturday, December 10, 2011, 8:30 am – 1:30 pm

Where: Northrop Grumman Café
One Space Park Drive 'S' Café
Redondo Beach, California
(On Marine Ave, a quarter mile east of Aviation Boulevard)

Note: the meeting is in open area, so no badge required.

Cost: $20 for members of the sponsoring organizations, $40 for non-members. Fee includes workshop and refreshments.

Schedule:
8:30 a.m. – 9:00 a.m.: Continental breakfast and registration
9:00 a.m. – 9:15 a.m.: Introduction
9:15 a.m. – 10:00 a.m.: Increasing You Value to an Employer—Anthony Nicoli, MIT CSC
10:00 a.m. – 10:15 a.m. Break
10:15 a.m. – 12:15 p.m. Power Interviewing Skills Workshop – Scott Olsen, The Olsen Group
12:15 pm – 1:30 pm: Lunch and Networking

Abstract: The job market is tough these days. It pays to be prepared to present what you have to offer to a prospective or current employer with clarity and impact. But where can you learn the skills required to master an interview?

Four Los Angeles organizations have joined together to bring you this Interview Skills Workshop. This is a rare opportunity to learn how to increase the value you bring to an employer and to hone your ability to articulate that value during an interview.

Scott Olsen of The Olsen Group, an accomplished career counselor and trainer, will lead a half-day program where you will learn interview techniques to help you land your next dream job, including how to handle difficult interview questions and how to make your strengths shine.

Whether you are seeking to reenter the workforce or are currently employed and considering a career change, this event will make sure you’re perfectly poised when opportunities come your way.

Registration: Register online at: http://alumweb.mit.edu/clubs/mitcsc/BrowseWeb.do?webSiteId=S1000397&webPageId=P008&eventId=43324

Directions to Northrop Grumman Café:
- From the 405, exit onto Rosecrans-West.
- Turn LEFT onto Aviation (third stoplight).
- Turn LEFT on Marine (second stoplight).
- Turn RIGHT at the next stoplight.

Testimonial: “I attended the Interviewing Skills Workshop in 2010 and found it to be excellent. Scott’s experience and advice was very helpful and the interactive nature of the workshop allowed me to gain real-world experience in interviewing skills. The group activities were beneficial because they helped me to greatly reduce my anxiety about job hunting and improve my confidence going in to interviews.”

Greg Griffes
2010 IEEE Coastal LA Section chair

You are invited to the INCOSE-LA Chapter Holiday Party
Sunday, December 11, 2011, 3:00 p.m. to 7:00 p.m.
at Susan Ruths’ house (in the Whittier heights area)
Great People * Fine Food
Gift Exchange
* Lots of Fun *
No cost for member and one guest
Bring a non-gag gift for a white elephant gift exchange
(something you already have, but feel guilty throwing away re-gift or purchased item ~$15 value)
R.S.V.P. on line by December 9, 2011
Go to http://events.r20.constantcontact.com/register/event?llr=4lhgeab&oeidk=a07e52q19x9g57c82a7
Your R.S.V.P. is essential to plan appropriately.
Please indicate if you will be bringing a guest. While this is intended as an adult party, if bringing your children makes sense, they are welcome...please provide their ages to allow for appropriate food and activity preparation
Directions to Susan’s home will be provided as an acknowledgement of your R.S.V.P.
Free IBM Rational Systems and Software Engineering Events

IBM invites INCOSE-LA to join them for three Rational® systems and software engineering events to learn how IBM® Rational is helping to lead the innovation agenda while addressing the complexity challenge. Events include a symposium (day of December 13, 2011), an IBM/INCOSE reception (evening of December 13, 2011), and hands-on workshops (day of December 14, 2011).

1. Symposium
   Date: Tuesday, December 13, 2011
   Time: 8:30 a.m. – 5:00 p.m. (registration & breakfast start at 8:30 a.m.)
   Location: Hilton orange county/ Costa Mesa
   3050 Bristol Street
   Costa Mesa, CA 92626
   714-540-7000
   Topics: How DOORS helps JPL, aerospace and defense roadmap, us army application of the model based approach, link data approach to integrating domains, DoDAF, demonstrations and more.
   Meals: breakfast and lunch provided

2. IBM/INCOSE Reception
   Date: Tuesday, December 13, 2011
   Time: 5:00 p.m. – 7:15 p.m.
   Location: Same as above
   Special Topic: Includes the presentation, “IBM Watson and Jeopardy: was it only a game?”

3. Hands-on Workshops
   Date: Wednesday, December 14, 2011
   Time: 9:00 a.m. – 5:00 p.m. (registration starts at 8:30 a.m.)
   Location: 600 Anton Blvd.,
   Second Floor-Rm. #208
   Costa Mesa, CA 92626
   Topics:
   Morning Session - Hands-on experience applying IBM Rational doors, IBM Rational Rhapsody and IBM Rational team concert with process guidance on best practices – comprising a complete lifecycle solution for systems engineering and embedded software development.
   Afternoon Session - Hands-on session provides an in-depth look at the process of defining and managing requirements throughout the systems and software development lifecycle.
   Complimentary lunch and parking

CALL FOR PRESENTATIONS

INCOSE LOS ANGELES CHAPTER (INCOSE-LA)
2012 Mini-Conference
Saturday, March 31, 2012
Loyola Marymount University, Los Angeles CA

Systems Engineering for Agility and Affordability

Systems Engineers have a long and successful track record of delivering large and complex systems. In response to a fast paced, cost constrained and continuously changing world, systems development has become closely integrated with business objectives like value creation and assured ROI. Investment capital requires low costs, manageable risks, and high reliability, which in turn makes a disciplined approach to systems engineering even more critical and places a higher premium on program execution.

This Mini-Conference will consider practical approaches to performing system engineering more efficiently and effectively, which may involve bringing more ‘agility’ into systems engineering processes.

In order to advance systems engineering as a discipline and as a profession, we invite you to submit a one page abstract of your idea for a presentation. Suggested topics include:

- Innovative methods for designing affordable solutions in an environment where requirements are increasingly more complex and funding is limited
- Assuring completeness and discipline in the systems engineering process while embracing an agile mindset.
- Use of new collaborating technologies, including web-based platforms, to manage globally distributed development resources.
- New architectural paradigms like service-oriented architecture and cloud computing.
- Capturing agility, responsiveness, and trustworthiness as design attributes in system trades.
- Early concept engineering and the need for speed, including the rapid conceptualization, design and manufacture of highly resilient, adaptable systems.
- Case studies on successful collaborative and/or cross-industry projects are especially welcome. A common, integrated set of best practices that could enhance overall program success.

Presentations will be limited to 20-25 minutes with 5-10 minutes of Q&A, for a total time of 30 minutes. Please send a one-page or less summary of your presentation to the Technical Chair, Mark Gallo (email: mark.gallo@incose.org) by December 31, 2011. You will be notified of acceptance by January 30, 2012. Your final presentation is due by March 9, 2012. When you are notified of acceptance, the presentation format will be provided. Ideally, all communications will be through email. If this is not possible, please advise immediately so that we can make arrangements to accommodate your needs. Should you have further questions, address them to Mark Gallo at mark.gallo@incose.org.
How many of you have been, are, or aspire to be a manager? Whether you wish to try your hand at managing people or projects, the skills you learn while volunteering in a volunteer-managed environment, such as INCOSE-LA, are without equal.

One such skill is motivating others. Naïve or untested managers often believe their jobs come with the power and authority to compel others do the right work and to do the work right. Seasoned managers know, however, that the number of carrots and whips a manager actually has are few and not very effective in the long run. Other motivational techniques are needed to encourage people to do their jobs. Given that in volunteer environments we do not get to hire or fire anyone, we have no carrots or whips at all. Therefore, a volunteer environment is a great place to learn alternative motivational techniques and discover what works and what does not.

The topic of volunteer motivation arose recently when your chapter leadership invited John Thomas, INCOSE President-elect, to participate in a discussion of proposed bylaw changes that include creating new organizational positions. This rearranging of "the org chart" begs the question; why would (should) people want to do that job? What is in it for them?

Knowing that in any volunteer environment it is crucial to make sure that the volunteers get more than they give, I volunteered to describe various volunteer types and the activities each would value. Understanding this "volunteer space" is critical to creating positions that give people a personal motivation for "stepping up to the plate" and carrying out the activities needed to keep a volunteer organization moving.

Main principle: Volunteer time is precious - respect it, use it wisely.

Volunteers come in many flavors. Some people have a lot of time they are willing to "donate". Others want to participate, but have limited time with only specific time slots available, e.g., only at work, or only at home. Additionally, it is important to identify what motivates potential volunteers. Here are some of the motivations that I have observed. Activity and position characteristics appealing to those motivations appear in parenthesis.

1. Improving the depth and breadth of one’s network (regular interactions, in venues such as workshops, with people they would like to meet, e.g., sales contacts, senior people from their own organization, or thought leaders in a particular subject)
2. Developing and honing leadership skills (opportunities to guide the organization into the future; usually, this is not enough by itself.)
3. Developing and honing management skills (assuring that present positions and activities are executed with quality; usually, this is not enough by itself either.)
4. Developing a social group (Los Angeles Chapter speaker meetings, networking events, holiday event)
5. Advancing a particular pet project (satisfy a personal challenge, advance the state of the art, useful for work, advances a credential, is energizing, engage technical area leaders.)
6. Checking a box for a resume
7. Looking good to the boss
8. Enhancing visibility
9. Feeling like they will make a difference, personal satisfaction, and
10. Creating a personal forcing function to maintain technical currency and/or connections (Attend speaker meetings, bringing the refreshments to the speaker meetings).

There are probably more motivations, but I think these are the basics. In any case, identifying the characteristics of potential volunteers before completing a new position description helps increase the odds of success when approaching people to fill the position. In our chapter, we routinely rearrange position titles and content to adapt to our volunteer pool. Note the separation above between leadership and management. I have found that most people are naturally a leader or a manager, not both. My personal experience is that the volunteer environment is the best "hands on" management training and leadership experience.

In summary, each of us has only one life to live and volunteering to the extent we can is personally and professionally rewarding. While this article was aimed at volunteering within INCOSE, its principles hold true for any organization including those in which we earn our livings. For example, when you seek to get the machine shop to meet your deadline, especially if you are not a manager, you are recruiting a volunteer within your company. Potential volunteers - step out with courage to maximize the personal and professional value of your time. Volunteer!

SPAM – Not! Renew Your Membership

Your INCOSE membership is in jeopardy, if email from info@incose.org is trapped by your SPAM filter. INCOSE no longer sends renewal reminders by mail, so look for your renewal reminder in your inbox.

Your member record is the key; reminders are emailed only to the first email address in your record. If you are not getting INCOSE E-Notes, then your email address may not be valid, or your SPAM filter may be overly enthusiastic. You can verify your contact information on-line at http://www.incose.org - click on “View / Update your Member Record” (left column).

For most of us (over 200 in the Los Angeles Chapter), our INCOSE memberships expire early in June. Renewal reminders will be emailed 30 days and 15 days before your membership expiration date. A drop notice will be sent 15 days after your membership lapses.

We look forward to having you as an active INCOSE member all year. Renew your membership now – on-line at
An announcement on the Southern California Software Process Improvement Network (SPIN) email list recommended this evening's presentation on Human Centered Design (HCD). It was the first I had heard about INCOSE, so I was interested to see what the organization is about, and as a Java user interface architect I am always interested in the topic of usability. Another point of interest for me is the relationship between university research and technology production, so this was an opportunity to learn how two University of California, Irvine, professors (Drs. Hadar Ziv and Judith Olson) build their curriculum on a business-specific subject, and how they connect with the business world through consulting and by proxy of their students.

The presentation outlined two distinct categories of implementation challenge in HCD, and showed how they are most effectively accomplished. Introducing HCD into a project begins with management buy-in, which has proven difficult with less mature organizations. The return on investment can easily be established with concrete data from a broad range of HCD successes, some of which are very well known, such as the iPhone. There are many kinds of value to be gained, from increased sales and customer retention, to optimization of employee work effort, to improved user focus and willingness to participate, to alleviation of support costs and legal liability. Incorporating HCD early in a project’s lifecycle reduces the risk of rework down the road, which is always expensive and often causes major logistical complications. Reasons abound for making HCD an essential factor in any technology product, though it is still common practice for project management to put it off until the symptoms of “unusability” demand attention.

Once a project has made a commitment to usability goals, there are of course many challenges in accomplishing them. The essential factors of HCD appear throughout all aspects of a product, including the details of each user interaction, user perception of the product’s state graph, the discoverability of features, and so on. While it might seem convenient to simply add an HCD phase to the project workflow, the permeating nature of usability requires that all phases of the product lifecycle include an HCD component. For some phases like mockups and storyboards, usability awareness can be incorporated into the existing methodology. Other phases require introducing a new unit of work specific to HCD. This May be a simple peer of its technical counterpart, such as a user testing phase to go along with functional testing, or it May involve novel concepts like the “archetype user”. The common challenge in all cases is for a development organization to put aside technical concerns long enough to discover what actual humans experience while using the product.

As a software development team lead, the takeaway for me is that there is an opportunity to improve usability in every phase of a project. If my team has been allocated a sprint that includes no points of concern for human users, then I need to discover what has been left out, seeking expertise from colleagues and from websites like http://www.useit.com. If I am not free to authorize the adjustments myself, at the very least I should suggest to management that an important value factor seems to have been overlooked. The software will pass all its functional tests whether it is useful to people or not, so it is a matter of professional discipline and understanding to maintain sufficient attention to the human factors.
The International Council on Systems Engineering (INCOSE) is an organization formed to advance the art and science of systems engineering in both the public and private sectors. INCOSE’s mission is to advance the state of the art and practice of systems engineering in industry, academia, and government by promoting interdisciplinary, scalable approaches that produce technologically appropriate solutions that meet societal needs.

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 the systems engineering field or related fields.

**2011 Board of Directors**

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<tr>
<th>Elected Officers</th>
<th>Elected At-large Directors</th>
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<tbody>
<tr>
<td>President</td>
<td>Membership</td>
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<tr>
<td>Beth O’Donnell</td>
<td>Paul Cudney</td>
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<tr>
<td><a href="mailto:Elizabeth.odonnell@incose.org">Elizabeth.odonnell@incose.org</a></td>
<td><a href="mailto:paul.cudney@incose.org">paul.cudney@incose.org</a></td>
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<tr>
<td>Vice-President</td>
<td>Programs</td>
</tr>
<tr>
<td>John Silvas</td>
<td>Michael Kim</td>
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<tr>
<td><a href="mailto:silvas.john@bah.com">silvas.john@bah.com</a></td>
<td><a href="mailto:michael.kim@jhuapl.edu">michael.kim@jhuapl.edu</a></td>
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<tr>
<td>Past President</td>
<td>Systems Engineering Education</td>
</tr>
<tr>
<td>Rosalind Lewis</td>
<td>Shirley Tseng</td>
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<tr>
<td><a href="mailto:rosalind.lewis@aero.org">rosalind.lewis@aero.org</a></td>
<td><a href="mailto:shirleytseng@earthlink.com">shirleytseng@earthlink.com</a></td>
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<tr>
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<td>Ways and Means</td>
</tr>
<tr>
<td>Alan Kirschbaum</td>
<td>Michael Maar</td>
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<tr>
<td><a href="mailto:aik@roadrunner.com">aik@roadrunner.com</a></td>
<td><a href="mailto:michael.c.maar@boeing.com">michael.c.maar@boeing.com</a></td>
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<tr>
<td>Harvey Soldan</td>
<td>Edie Ung</td>
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<tr>
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<tr>
<td>Appointed Positions</td>
<td>Newsletter Co-Editor</td>
</tr>
<tr>
<td>Newsletter Co-Editor</td>
<td>DeAnna Regalbuto</td>
</tr>
<tr>
<td>Jorg Largent</td>
<td><a href="mailto:deanna.regalbuto@verizon.net">deanna.regalbuto@verizon.net</a></td>
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<td><a href="mailto:largent_atpmd@msn.com">largent_atpmd@msn.com</a></td>
<td>Reflector Manager</td>
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<tr>
<td>OPEN</td>
<td>Susan Ruth</td>
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<tr>
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<td>Industrial Relations Manager</td>
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<td>Jose Garcia Jr.</td>
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<td><a href="mailto:joshua.sparber@dcdna.mil">joshua.sparber@dcdna.mil</a></td>
</tr>
<tr>
<td>Professor Networking Chair</td>
<td>Website Technical Manager</td>
</tr>
<tr>
<td>Nehal Patel</td>
<td>Mark Gallo</td>
</tr>
<tr>
<td><a href="mailto:nehal_p1_patel@raytheon.com">nehal_p1_patel@raytheon.com</a></td>
<td><a href="mailto:mark.gallo@incose.org">mark.gallo@incose.org</a></td>
</tr>
<tr>
<td>Professional Networking Chair</td>
<td>CSER Management Chair</td>
</tr>
<tr>
<td>OPEN</td>
<td>Terry Rector</td>
</tr>
<tr>
<td>Chapter Recognition Manager</td>
<td><a href="mailto:Stephen.Guine@ngc.com">Stephen.Guine@ngc.com</a></td>
</tr>
<tr>
<td>OPEN</td>
<td>Lead Site Coordinator</td>
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<tr>
<td>Michael Wallace</td>
<td>OPEN</td>
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