



NEWSLETTER

Vol. 6: Issue No. 1

February 2008



UPCOMING EVENTS

INCOSE-LA and PMI LA Joint Chapter Dinner

Location & Date

Proud Bird Restaurant
11022 Aviation Blvd.
Los Angeles, CA 90045
Thursday, February 21, 2008
5:30 p.m. Registration and Networking
6:45 p.m. Vendor: Leverage Point
7:00 p.m. Announcements and Dinner
8:00 p.m. Speaker: James A. Manson III, PMP

INCOSE-LA Speaker Meeting State Analysis for Systems Engineers

Location & Date

JPL Von Karman Auditorium
Tuesday, March 25, 2008
5:30 p.m. Networking
6:30 p.m. Presentation (all sites)

INCOSE-LA Speaker Meeting State Analysis for Systems Engineers Tutorial

Location & Date

Caltech Baxter Auditorium
Wednesday, March 26, 2008
8:00 a.m. to 5:00p.m

Basics of Systems Engineering (BASE)

Location & Date

The Aerospace Corporation
2401 E. El Segundo Blvd.
El Segundo, CA 90245
Bldg. 9 Room 522
8:00 a.m. to 4:30 p.m.
April 1-3, 2008

Conference on Systems Engineering Research (CSER) 2008

Location & Date

Crowne Plaza Hotel
300 N. Harbor Dr.
Redondo Beach, California
April 4-5, 2008

President's Message

President's Welcome Message

Submitted by David Boyd



Seeing that this is the first newsletter of the year, I would briefly like to thank the efforts of Eric Belle, Lee-Ann Seeling and our newest Newsletter Editor, Sallie Piccorillo. Eric Belle, this year's Vice President and the Editor for the last two years has done a superb job in keeping this newsletter as a valued chapter product. Lee-Ann Seeling, our newly elected Communications Director, and her husband, Tom Seeling, are the publishers of the newsletter. Sallie Piccorillo has transitioned very well into the position as Chapter Newsletter Editor, compiling, organizing, proofreading and laying out the great articles that seem to never cease. These three outstanding volunteers dedicated their time and effort to deliver us the December 2007 issue and our first issue of the year.

As systems engineers, you the readers, have just quickly thought about the process of creating and publishing a newsletter; and now you say to yourselves, "more power to them" and then each of you sighs a breath of relief and a "thank you". If you have the interest and time to spare, I encourage all of you to get involved with the Chapter operations at some point in time, if not but just once.

With this bit of a lead-in, I would like introduce myself as your 2008 Chapter President. My name is John David Boyd, and most refer to me as David. I graduated with a B.S. in Aerospace Engineering from the University of Texas at Austin. Reflecting back on my 17 years out of school, I realize that I have done most everything except Aerospace Engineering! Though I am a Sr. Software Systems Engineer with Science Applications International (SAIC), I am enjoying my role as a test engineer on Boeing's C-130 Avionics Modernization Program where I work with Systems Engineers, Software Engineers and Program Management in completing a rigorous requirements-based qualification test effort. I have had the opportunity to have contributed to two milestones since May 2006: First Flight of the avionics upgrades in 2006 and a subsequent "First Flight" of a second rollout in 2007.

I have realized that as each day passes, I use the Systems Engineering experience that I unknowingly gained while working my first post-college job as a Nuclear Test Engineer at DOD-NAVSEA'S Norfolk Naval Shipyard in Portsmouth,

Virginia. I learned what Systems Engineering really meant before I or my peer group even knew of the phrase. It was a place where the projects were large and complex but the teams were integrated and well defined. The Project Manager and Chief Engineer shared a responsibility in the Project Initiation and Project Planning, the Chief Engineer and his or her team of engineers defined the requirements based on the work scope, created the work plans and procedures, the test plans and procedures, and the verification and validation plans and procedures. All of these efforts involved a core group of stakeholder oversight: Naval Reactors representative, the supplier of the nuclear reactor, the Ship's engineering representative, and the Chief Engineer. The Chief Engineer relied on a core group of engineers and support staff to develop and define the project requirements and decomposes these into manageable work tasks. The tasks were mapped to the technical requirements of the project, so on and so forth. All efforts culminated into an integrated effort that involved radiological controls, quality assurance, shop personnel, finance personnel, staffing support, naval support, non-Nuclear engineering support, and test support.

Seventeen years ago, I would not have been able to describe an overhaul of a Nimitz-class Aircraft Carrier's nuclear power plant in the way that I just did and without explaining the technical details of just a small part of the project. The point being that Systems Engineering, no matter what the domain, has a basic framework of how to accomplish work in support of delivering a product or process that meets and most often exceeds a customer's expectations. I learned and continue to learn about this framework through my involvement in INCOSE. INCOSE has given me exposure to this knowledge that is generally gained through many years of experience and lessons learned.

In 1999, I first learned about INCOSE from a former Los Angeles Chapter President, Mike Krueger, but it was not until 2004 that I actually attended an INCOSE monthly speaker meeting. I felt that it was time to immerse myself in a group of practitioners and experts before deciding whether or not to pursue an advanced degree in Software Engineering or Systems Engineering. Since that first meeting, I have had the opportunity to volunteer and work with many dedicated Systems Engineers who comprise this Chapter to deliver value to its membership of this Chapter. My chapter involvement includes: Mini-conferences, CSER 2006, CSER 2008, Secretary and Vice President.

It is my hope that others have similar experiences to share regarding the value gained from INCOSE. 2008 will be a busy year for our Chapter as we build upon the successes from last year. We have an extremely capable Board of Directors and team of dedicated members who have stepped into appointed positions such as Newsletter Editor. We have a new look to our website and your suggestions are welcome.

We are seeking to improve upon last year's successful pilot webcast capability. We are planning to deliver more tutorials this year in addition to joint speaker meetings with societies such as PMI, AIAA, IEEE, and SPIN. Eric Belle is working toward generating INCOSE-LA interest and local participation in a National robotics competition. And of course, we are supporting USC in its Annual Conference on Engineering Research (CSER 2008) in April. CSER 2008 directly benefits our chapter through participation in papers and presentations, new and continuing membership and the promotion of INCOSE in the Los Angeles area. In closing, I would like to thank you for taking the time to read my message and the articles that are presented within this newsletter. I look forward to meeting many more of you as we all work toward meeting this year's goals and objectives.

2008 INCOSE-LA Awards

Submitted by Jim Manson, Past President

The 2008 Board is proud to present to the membership the following awards issued to members of the INCOSE-LA chapter:

Marsha Weiskopf, Treasurer - Susan C. Ruth Award



The Board wishes to honor Marsha for her dedicated service as the INCOSE-LA Treasurer for the past several years. Marsha continues to volunteer many hours to achieve a balanced budget.

The *Susan C. Ruth* award is named for the service Susan provided during the first ten years of the Chapter's existence service in every way possible while never seeking anything other than the betterment of the Chapter. The award was started in 2001. It is meant to recognize LA Chapter Volunteers who have given a significant amount of volunteer service to the chapter for at least 5 years.

Ben Luong, Website Technical Manager- President's Award



Thanks to Ben's expertise, the INCOSE-LA Chapter now has a technically updated website that is very easy to use.

The *President's Award* was started in 2003 as a way to distinguish a member that provided service to the chapter while the immediate past president was in office. This award is to honor those who step up and do outstanding work even when they are not elected or appointed to the task.

Report on Jan 16th Speaker Meeting

Submitted by Shirley Tseng

On Jan 16th, John Clark, the Director At Large for Training and Education for the Hampton Roads Chapter of INCOSE, presented at our monthly speaker meeting. John is a Chief Engineer at Northrop Grumman Mission Systems in Virginia Beach, VA. The meeting was hosted at The Aerospace Corporation in El Segundo. The meeting was delivered via webcast to Boeing in Huntington Beach, Southern California Edison in Rosemead, The Aero Institute in Palmdale and to the JPL in Pasadena. Attendance counts were 40+ at the host site and 25+ at the remote sites. John Clark delivered his perspective on Systems Engineering (SE), Systems of Systems Engineering (SoSE) and Family of Systems Engineering (FoSE) from a Standards Perspective.

A key point that John presented to the audience is that the standards (EIA, IEEE, etc), which have been used to define the systems engineering processes, are indeed adequate to tackle the task of translating the problem space to the solution space for SoSE and FoSE. This point was made because he wanted to stress that the Systems Engineering approach is still relevant whether applied to a System, a System of Systems or a Family of Systems. John did mention that standards, though lacking in some areas and stronger in other areas, could be used collectively. In other words, the standards are intended to be followed yet promote a tailored approach.

John also pointed out a few key differences when thinking about SoSE and FoSE. The key difference is that in a System of Systems, the parts that comprise the System are ultimately integrated by means of the interfaces. The parts may or may not be members of a common domain. In a Family of Systems, each system that comprises the Family, i.e., are not truly integrated. The key to successful Systems of Systems Engineering is to embrace the systems engineering management of these interfaces that eventually help to define a System of Systems or help to transform a Family of Systems into a System of Systems.

John answered many good questions after his presentation. John concluded the meeting by giving the attendees a summary on various training opportunities to support those who are seeking to be a Certified Systems

Engineering Professional (CSEP). John provides a webcast enabled 11-week tutorial. Our Chapter is working toward partnering with John in offering this opportunity as a training option.

John Clark SPIN and INCOSE-LA Tutorials

Submitted by Shirley Tseng

The Southern California SPIN (Software Process Improvement Network) and INCOSE-LA jointly sponsored a tutorial by John Clark on Jan 18, 2008 at NGC on software engineering, system engineering, and system of system engineering standards. There were around 40 engineers in the audience in the morning and 17 in the afternoon. Both sessions were interactive sessions with many audience questions and participation from the audience. John Clark started the talk with a funny 'system engineering' Dilbert video from Scott Adam and proceeded with discussions on what is system engineering, what is a system, what is a system of system, how is it different from family of systems, and system engineering management processes. It is one of the all important foundations in the education of system engineers. If you never had the time to read of the System Engineering or Software Engineering standards or the budget to buy the standards, this was the tutorial to come and learn and ask your questions.

The Jan INCOSE-LA meeting on Jan 16 was a 45 minute preview of the material. Many of the slides are copyrighted with IEEE, ISO, EIA, ANSI diagrams, with permission granted to John Clark to use during the tutorials. The non-copyrighted slides will be available on the INCOSE-LA web site, but the copyrighted diagrams will not be on the slides. If you missed the talk and would like to attend in a future year, please let shirleytseng@earthlink.net know and we can schedule a return visit.

John Clark ended the day with a review of the INCOSE Certified Systems Engineering Professional (CSEP) process, benefits of getting a certificate, and his upcoming webinar study group. See the SE Certification article in this newsletter for additional details.

February Speaker Meeting

Systems Engineering for Project Managers,
James A. Manson III, PMP

Location: Proud Bird Restaurant,
11022 Aviation Boulevard, Los Angeles, CA 90045

ABSTRACT: Systems are commonplace in our daily lives—and include such things as banking, telephone, television, government, the Internet, electrical power, aircraft, and satellites. Systems Engineering is an interdisciplinary approach and means to enable the realization of successful systems. Systems Engineering integrates all the disciplines and specialty groups into a team effort forming a structured development process that proceeds from concept to production to operation. Systems Engineering considers both the business and the technical needs of all customers with the goal of providing a quality product that meets the user needs.

Systems engineering can help project managers:

- Increase the probability of project success
- Reduce total life-cycle cost
- Reduce schedule length (and time to market)
- Reduce risk, and more effectively trade and balance cost, performance, schedule, and risk

This is particularly important as many systems become more complex with time and include complex interactions of advanced technologies, have high customer expectations, must be delivered to market quickly, must compete in an increasingly globalized market, and face increased regulatory requirements from governments.

Come and find out how systems engineering can help you think of your projects more globally and improve your project

management practice through more effectively trading and balancing cost, performance, schedule, and risk.

BIOGRAPHY: **Jim Manson** is a Functional Manager for The Boeing Company Southern California Region, Systems Engineering (SE) Systems Integration, Verification & Validation (SIVV) department. In this capacity, he is responsible for providing functional support to the SE - SIVV groups throughout the Southern California region. Prior to SE - SIVV, he worked as a Systems Engineering Manager for the C-17 Program.



Jim has been with Boeing for over 19 years and for the past 30 years he had the opportunity to work as a Systems, Project Management, Structural, Manufacturing, Tool, Facilities, and Design Engineer. At Boeing, he worked on the MD-80/90/11 and 717 Programs in Long Beach California, and 747/67 Programs in Seattle Washington.

Jim received his BSME, from Cal Poly Pomona, Project Management Professional Certificate from PMI, and Systems Engineering Certificates from Cal Tech and UCI. He's currently working on his Systems Engineering Masters Degree from the Missouri University of Science and Technology. He is the immediate past President of the International Council on Systems Engineering-LA Chapter. But most of all, his main passion is for his family.

Members \$30
Non-Members \$35
Students - \$25

<http://www.pmi-la.org/>

- 5:30 Registration and Networking
- 6:45 Vendor: Leverage Point
- 7:00 Announcements and Dinner
- 8:00 Speaker: **James A. Manson III, PMP**

The Board and Officers wish to welcome the following new members in the Los Angeles Chapter of INCOSE:

Note: The information listed below is pulled 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	Title	Company
David Cadmus	Systems Engineering and Test Center Manager	Northrop Grumman Corporation
Lawrence Darbonne	Senior Manager	LinQuest Corporation
Cindy Hsu	Systems Engineer	Northrop Grumman Corporation
Venkateshwaran Krishnan	Director of Programs	Direct Drive Systems Inc
Alicia Lanz	Systems Engineer	Northrop Grumman
Dr. Steve Lewis	Manager	Northrop Grumman Corporation
John Morgan	Sr. Systems Engineer	Northrop Grumman Corporation
Laurence Souverielle	Program Manager	The Boeing Company
Edie Ung	Manager III Systems Engineering	Raytheon Space and Airborne Systems

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Community Service

Seeking Engineers for a Community Service Opportunity with FIRST Robotics

Submitted by Eric Belle

INCOSE LA is seeking system engineers who would be willing to help a local high school participate in the FIRST Robotics Competition. There is a need for mechanical, electrical, software and system engineers.

The FIRST Robotics Competition is a national engineering contest which immerses high school students in the exciting world of engineering. Teaming up with engineers from businesses and universities, students get a hands-on, inside look at the engineering profession. In six intense weeks, students and engineers work together to brainstorm, design, construct and test their "champion robot". With only six weeks, all jobs are critical path. The teams then compete in a spirited, no-holds-barred tournament complete with referees, cheerleaders and time clocks.

The partnerships developed between schools, businesses, and universities provide an exchange of resources and talent, highlighting mutual needs, building cooperation, and exposing students to new career choices. The result is a fun, exciting and stimulating environment in which all participants discover the important connection between classroom lessons and real world applications.

Each year, the competition is different, so returning teams always have a new challenge to look forward to. However, the details are kept secret until the unveiling at the Kick-Off workshop. This provides a high level of excitement as everyone sees the new challenge for the first time and ideas immediately begin forming in people's minds.

FIRST has a website at www.usfirst.org if you would like more information. The INCOSE LA website also has information that was presented at the January speaker meeting by Ric Roberts, a Systems Engineer from Raytheon Space and Airborne Systems. In addition to coaching his daughter's team, the Beach Bots from Redondo Beach to a recent National Championship, Ric also has extensive ties to a number of other schools in the Southern California area who enter robots into the competition and are eager for the assistance and expertise that engineers can provide. The information posted on the INCOSE LA website includes Ric's presentation, a short video clip of a recent competition and a list of schools in the Los Angeles area that sponsor teams.

If you are interested in participating, give Ric Roberts a call at (310) 616-1356 or email him at rtroberts@raytheon.com.

SE Certification

Prepare for SE Certification with an Online Tutorial

Submitted by Shirley Tseng

Interested in SE certification? The Hampton Roads Area (HRA) INCOSE Chapter and Northrop Grumman are hosting an online tutorial providing an overview of the INCOSE SE Handbook to prepare for the INCOSE SE certification exam. Taught by John Clark, HRA Director of Education & Training and Northrop Grumman Mission Systems Chief Engineer, the tutorial will cover the Certified Systems Engineering Professional (CSEP) process as well as the management and technical sections of the SE Handbook, Version 3.1 (the basis for the certification exam).

Beginning in March 2008, the tutorial consists of twelve weekly sessions Fridays from 1200-1330 EST. Prior to each session participants are encouraged to read the sections of the Handbook to be presented. The course overview including the session, date, handbook section/appendix, and topic will be provided at a future date.

Northrop Grumman employees can access the tutorial slides (including Notes), telecon number, and prior-session audio via either their [Sametime Server](#) or their training course directory at `\\rsmv48-eprocess\epi\Training\Course-Data`. The Sametime and telecon infrastructure will support up to 250 Northrop Grumman participants. **Registration is required for non-Northrop Grumman participants only** to obtain access to the tutorial slides (including Notes), telecon number, and prior-session audio posted on INCOSE Connect. This registration includes a minimal fee of \$100 per registrant to cover INCOSE expenses. Registration will be handled on a first-come, first-served basis using an [online registration site](#). The telecon infrastructure will support up to 250 non-Northrop Grumman participants. Contact John Clark (john.clark@incose.org) for additional details. Please note that you must be either a member of INCOSE or a Northrop Grumman employee to participate in the tutorial.

BASE

BASE (BASics of System Engineering)

Sponsored by the California Innovation Corridor (CIC).

On April 1st, through April 3rd, the Aerospace Corporation will be hosting a free introductory course in Fundamentals of System Engineering.

This course is targeted towards students, engineers and professionals who have the need or desire to further their understanding of Systems Engineering. More information is available at: <http://www.csewi.org/programs.html#CIC>

2008 Election Results

Election Results

Submitted by David Boyd – President

INCOSE-LA is pleased to announce the results of the recent elections and would like to take this opportunity to congratulate the newly elected and returning members of the 2008 Board of Directors. Your 2008 Board of Directors is:

President:	John David Boyd
Vice-President:	Eric Belle
Past-President:	James A. Manson III
Secretary:	Beth O'Donnell
Treasurer:	Marsha Weiskopf
Membership Director:	Paul Cudney
Programs Director:	Dr. Jack Elson
SE Education Director:	Shirley Tseng
Ways and Means:	Dana Pugh
Communications:	Lee-Ann Seeling

INCOSE-LA is also pleased to recognize and announce those Chapter members who have accepted the opportunity to serve the Chapter in one of several appointed positions. The team who keeps the Chapter running by coordinating speaker meetings, tutorials, newsletters, webcasts, mini-conferences, CSER 2008, newsletters, the website and much more is:

Newsletter Editor:	Sallie Piccorillo
Newsletter Production Manager:	Oversight by the Communications Director
Reflector Manager:	Susan Ruth
Industrial Relations Manager:	Jose Garcia, Jr.
Technical Society Liaison:	Edmund Conrow
Chapter Recognition Manager:	Michael Maar
Lead Site Coordinator:	Anna Warner
Webcast Event Manager:	Chris Delp
Website Content Manager:	Oversight by the Communications Director
Website Technical Manager:	Benjamin Luong

The exceptional slate of candidates reflects the continued

growth of INCOSE-LA and the tremendous dedication of its members. Sincere thanks to those who are willing to make such a significant commitment to serve and lead our organization, and thank you to all of the INCOSE members who took the time to vote. If you would like to become more involved with the planning and execution of Chapter functions, then please contact any of the Board of Directors

CSER08

Conference on Systems Engineering Research 2008 (CSER08)

Submitted by Scott Jackson, CSER 2008 Conf. Cont. Chair

Everyone interested in the more advanced aspects of systems engineering will want to attend this conference in the LA area on Friday and Saturday April 4 and 5. Early registration is now available through February 28th. CSER08 is hosted by USC in collaboration with Stevens Institute, with Dr. George Friedman, also an INCOSE Founder and Fellow, INCOSE-LA member, as General Chair. INCOSE-LA is managing the conference with Dr. Malina Hills of the Aerospace Corporation as Conference Management Chair. Dr. Azad Madni, INCOSE Fellow, of Intelligent Systems Technology and INCOSE-LA is Technical Chair. There will be approximately 100 presented papers plus panels and plenary speakers and a banquet on Friday night.

CSER08 will be at the Crowne Plaza Redondo Beach & Marina Hotel, Redondo Beach, CA. You can find out more about registration and the technical program by going to www.incose-la.org/events/conferences/cser-2008.html

Banquet speakers will include William F. Ballhaus, Sr., President Beckman Instruments (ret), William F. Ballhaus, Jr., and William L. Ballhaus, President, BAE Network Systems. For more information contact Scott at jackessone@cox.net.

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An International Conference

Conference Announcement
Sixth Annual Conference on Systems Engineering Research
April 4-5, 2008 Los Angeles, California
Crowne Plaza Hotel, Redondo Beach
http://www.incose-la.org/cser2008/

CSER Collaboration

Professor Stan Settles; Director of Systems Architecting and Engineering Program, USC
Professor Dinesh Verma; Dean of Systems Enterprise School, Stevens Institute of Technology

CSER 08 Management Team

Dr. George Friedman, USC, General Chair
Dr. Malina Hills, Aerospace Corporation, Conference Management Chair
Dr. Azad Madni; Intelligent Systems Technology, Technical Chair
Scott Jackson, USC, Program Liaison

Plenary Speakers

Dr. Pat Hale; MIT, INCOSE President
Paul Gartz, Boeing, IEEE Systems Council president
Prof. Barry Boehm, Director of Center for Systems and Software Engineering, USC
Prof. Andy Sage, Editor in Chief, Systems Engineering, George Mason University
Dr. Azad Madni, CEO Intelligent Systems Technology, Inc
Dr. Donna Rhodes, MIT, Director SEANET and SEARi
Samantha Brown, BAE, INCOSE director: Technical Leadership Team
Dr. Elliot Axelband, Rand Corporation, Chair, Executive Round Table.

Banquet Speakers

William F. Ballhaus, Sr., President Beckman Instruments (ret)
William F. Ballhaus, Jr., CEO Aerospace Corporation (ret)
William L. Ballhaus, President, BAE Network Systems

Breakout Speakers

Over 70 presented papers plus poster sessions from abstract reviews and PhD candidates from the April 3 SEANET meetings.

Technical Program

Dr. Azad Madni, Chair, Conference Technical Program
Chief Executive Officer
Intelligent Systems Technology, Inc.
Santa Monica, California 90405
Tel: 310-581-5440 x144; cser08@IntelSysTech.com



SEANET

SEANET is an INCOSE sponsored network of doctoral student researchers working in the field of systems engineering and architecting. A SEANET workshop will be conducted on Thursday April 3. More information is available at http://www.incose.org/practice/research/seanet.aspx.

The University of Southern California in collaboration with Stevens Institute of Technology presents the 6th annual Conference on Systems Engineering Research.

The primary conference objective is to provide practitioners and researchers in academia, industry, and government a common platform to present, discuss and influence Systems Engineering research with the intent to enhance Systems Engineering practice and education.

Organized by the University of Southern California (USC) in collaboration with Stevens Institute of Technology, managed by the Los Angeles Chapter of the International Council on Systems Engineering (INCOSE).

CSER 2008 also welcomes the INCOSE Board of Directors on Tuesday and Wednesday, April 1 and 2.

General Information

For information about registration, hotel, location, financial support and other subjects, see the web site above or contact cser08registrations@incose-la.org.

Early registration fees (before March 1) are as follows:

- INCOSE Members - \$350
• Non-INCOSE members - \$400
• Students (full time) - \$300



INCOSE LA Chapter

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INCOSE LA Chapter NEWSLETTER

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Return Address:

PO Box 490341
Los Angeles, CA 90049

Forwarding Address Requested

The International Council on Systems Engineering (INCOSE) is an organization formed for the purpose of advancing the art and science of systems engineering in various areas of the public and private sectors. The Los Angeles Chapter meets several times per year for dinner meetings, and additionally sponsors tutorials and other activities of interest to those in the systems engineering field or related fields. L. A. Chapter Officers are as follows:

2008 Board of Directors and Appointed Positions

Elected Officers

President:	John David Boyd	john.boyd@incose.org	or	president@incose-la.org
Vice-President:	Eric Belle	eric_c_belle@raytheon.com	or	vicepresident@incose-la.org
Past President:	James Manson III	james.a.manson-iii@boeing.com	or	pastpresident@incose-la.org
Secretary:	Beth O'Donnell	elizabeth.l.o'donnell@boeing.com	or	secretary@incose-la.org
Treasurer:	Marsha Weiskopf	marsha.weiskopf@aero.org	or	treasurer@incose-la.org

Elected At-Large Directors

Membership:	Paul Cudney	paul.cudney@incose.org	or	membership@incose-la.org
Programs/Speakers:	Jack Elson	jelson@nu.edu	or	programs@incose-la.org
Tutorials/Education:	Shirley Tseng	shirleytseng@earthlink.net	or	setraining@incose-la.org
Ways and Means:	Dana Pugh	dana.pugh@incose.org	or	waysandmeans@incose-la.org
Communications:	Lee-Ann Seeling	lsseeling@aol.com	or	communications@incose-la.org

Appointed Positions

Newsletter Editor:	Sallie Piccorillo	salpiccorillo@yahoo.com	or	newsletter@incose-la.org
Newsletter Production Manager:	Communications Director			
Reflector Manager:	Susan Ruth	susan.c.ruth@aero.org		
Industrial Relations Manager:	Jose Garcia, Jr.	jose.s.garcia-jr@boeing.com		
Technical Society Liaison:	Edmund Conrow	info@risk-services.com		
Chapter Recognition Manager:	Michael Maar	michael.c.maar@boeing.com		
Lead Site Coordinator:	Anna Warner	anna.warner@boeing.com		
Webcast Event Manager:	Chris Delp	clldelp@jpl.nasa.gov		
Website Content Manager:	Communications Director			
Website Technical Manager:	Benjamin Luong	Benjamin.Q.Luong@boeing.com		
CSER 2008 Management Chair:	Malina Hills	malina.m.hills@aero.org		
CSER 2008 Continuity Chair:	Scott Jackson	jackessone@cox.net		
Venue Chair:	TBD-Vacant	TBD-Vacant		

Those interested in INCOSE membership please contact Paul Cudney - paul.cudney@incose.org. If you wish to be placed on our E-mail distribution, please contact Susan Ruth - susan.c.ruth@aero.org.