



NEWSLETTER

Vol. 5: Issue No. 7

December 2007



UPCOMING EVENTS

2008 Software and Systems Chapters Congress LA and OC

Location & Date

Northrop Grumman "S" Café Bldg R6
2050 Marine Ave.
Redondo Beach, CA 90278
January 10, 2008
6:00 to 8:30

January 2008 INCOSE LA Meeting

Location & Date

The Aerospace Corporation
2350 E. El Segundo Blvd.
El Segundo, CA 90245
January 16, 2008
5:30 Networking
6:00 2008 Officer Installation
6:30 Presentation

Joint SPIN/INCOSE-LA Meeting and SoSE/FoSE Tutorial

Location & Date

Northrop Grumman E2 Presentation Center
2299 Marine Ave.
Redondo Beach, CA 90278
January 18, 2008
9:00 a.m. - 12:00 noon (Meeting)
1:00 - 5:00 p.m. (Tutorial)

2008 INCOSE International Workshop

Location & Date

Embassy Suites
Albuquerque, New Mexico
January 26-29, 2008

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.

Conference on Systems Engineering Research (CSER) 2008

Location & Date

Crowne Plaza Hotel
Redondo Beach, California
April 4-5, 2008

Message from the President

Approximately 34 members and guests had a wonderful time at the INCOSE-LA Holiday Party at the Szechwan Restaurant in Manhattan Beach On Saturday, December 8th. I'd like to thank Shirley Tseng for suggesting and making the party arrangements. The food and service were excellent.

I am honored to have served as the President of INCOSE-LA this past year. I was delighted to end the year with members and guests of the INCOSE-LA family. This was the highlight of the year for me. The INCOSE-LA Board of Directors and volunteers have worked hard throughout the year and I want to thank everyone for their dedication and support of all of the INCOSE-LA activities. You are the best team I have worked with and I have enjoyed every moment throughout the year

Jim Manson, President

2008 SSCC - LA/OC

2008 Software and Systems Chapters Congress (SSCC) of Los Angeles and Orange Counties: On Thursday, January 10th, 2008, from 6:00pm-8:30pm, representatives of local chapters of professional and technical societies involved with software and systems development in Los Angeles and Orange Counties. We will be gathering the Northrop Grumman "S-Cafe" off Marine Ave, between Aviation Blvd and Redondo Beach Ave in Redondo Beach, CA.

This gathering is for general members, event coordinators, and officers of local chapters of professional or technical societies in the greater Los Angeles and Orange County area. The congress will feature various local chapters of professional and technical societies presenting their groups, events, and opportunities for involvement. The event will consist of refreshments, social and networking time, short (10 minute) presentations by various local chapters about their events, and tables for the chapters to distribute information about their group and events. A complete list of chapters confirmed will be on the SSCC webpage (<http://robotics.usc.edu/~dlatimer/SSCC/>), but will include the Southern California Software Process Improvement Network, the Institute for Electrical and Electronics Engineers (IEEE) Coastal Los Angeles Section, the Los Angeles Chapter of the International Council on Systems Engineering (INCOSE), Association for Computing Machinery (ACM), and the Society for Women Engineers (SWE).

These groups and others will be presenting their calendar of up-

coming events and looking to partner up to host larger events in the local area. So, if you are an officer of a group who wants to get the word out, a member who straddles multiple groups and wants to see a joint event, or are generally interested in learning more about software and systems chapters in Los Angeles and Orange County, please feel free to attend. RSVP is not required, but a quick email to SSCCLAOC@gmail.com will help us ensure sufficient refreshments.

January 16 Meeting

“Systems of Systems Engineering (SoSE) and Family of Systems Engineering (FoSE) from a Standards Perspective”

John O. Clark

Chief Engineer, Northrop Grumman Mission Systems

The Aerospace Corporation
2350 E. El Segundo Blvd.
El Segundo, CA 90245

Networking 5:30 pm (with substantial snacks)
2008 Officer Installation 6:00 pm
Announcements and Speaker Introduction 6:20 pm
Speaker 6:30 pm

Members Free

Guests – Free, \$10.00 donation suggested
(for the snacks, chapter pays for members)

ABSTRACT: Systems of Systems Engineering (SoSE) and Family of Systems Engineering (FoSE) continue to be two of the least well-understood SE disciplines. Knowledge of the SE standards significantly aids this understanding, including the relationship between SE, SoSE, and FoSE. This knowledge enhances any engineer's career. The goals of this presentation are to: 1) describe the SE standards heritage, processes, and products; 2) show the relationships between SE, SoSE, and FoSE based on these standards; 3) encourage and challenge the participants to read, understand, select, tailor, and apply these standards to SE, SoSE, and FoSE.

At the end of the presentation, John Clark will give a brief overview of the INCOSE Certified Systems Engineering Professional (CSEP). A longer overview will be given during the tutorial on January 18.



BIOGRAPHY: John Clark is a Chief Engineer in Northrop Grumman Mission Systems (NGMS). He is located at the Warfare Systems Engineering Department in Virginia Beach, VA. He currently supports the NGMS Directors of Process Management (SE) and Human Resources (SE Training). John has over 41 years experience applying SE and software engineering to the acquisition, development, verification/testing, operations, and

support/maintenance of military command, control, communications, computer, intelligence, radar, sonar, electronic warfare, identification, weapon, network, scientific, and information systems. He is the NGMS alternate lead on the NG Systems Engineering Advisory Group (SEAG); the co-lead of the NGC SE Handbook Working Group (WG); the NGMS lead on the System of Systems Engineering (SoSE) Community of Practice (CoP), the Training WG, and the Industry WG; the co-lead of the SEAG Agile SE CoP; the NG lead on the Society of Automotive Engineers (SAE) SE Committee; the Director of Education and Training of the INCOSE Hampton Roads Area Chapter; a member of the IEEE SE Council and the IEEE 1220 WG; a member of the EIA-632A GEIA G-47 SE committee; the NG alternate representative to the US Technical Advisory Group (TAG) to ISO; a member of the review teams for ISO/IEC 15288, ISO/IEC 12207, ISO/IEC TR 24748, and the INCOSE SE Handbook; and a member of several INCOSE WGs. John is an internationally recognized speaker and Subject Matter Expert in SE, and teaches SE tutorials at major SE symposia including the INCOSE, SSTC, and SEAG symposia. He led the development of and is the lead instructor for the INCOSE Certified Systems Engineering Professional (CSEP) course and the NGMS SE Associates (SEA) Forum course. John earned a BS in Electrical Engineering from the Pennsylvania State University and an MS in Electrical Engineering from the State University of New York.

RESERVATIONS: You MUST RSVP to attend, NO EXCEPTIONS. RSVP via website (at the bottom of the event web page) at www.incose-la.org or to Paul Su, (registration@incose-la.org, or 310-336-2602) by January 13 if you are a US citizen or Resident Alien, or by January 9 if you are NOT a US citizen.

--Provide the following information: name, affiliation, citizenship, email address, and phone number.

--U.S. Citizens bring a picture ID (Driver's License).

--Resident Alien bring your Valid Resident Alien I.D. Card

DIRECTIONS TO THE AEROSPACE CORPORATION

<http://www.aero.org/corporation/locations/elsegundo.html>

From the southbound San Diego Freeway (Interstate 405):

Exit at El Segundo Blvd (La Cienega Blvd) (just past the I-105 interchange).

Turn left at the bottom of the ramp onto La Cienega.

At El Segundo Blvd, turn right.

Turn left on Douglas St.

Turn left into Aerospace

From the northbound San Diego Freeway (Interstate 405):

Exit at El Segundo Blvd. (just before the I-105 interchange).

Turn left at the bottom of the ramp onto El Segundo Blvd.

Turn left on Douglas St.

Turn left into Aerospace

SPEAKER MEETING WEBCAST INFORMATION

Remote sites will be available for receiving the presentation via live webcasts. RSVP requested via the INCOSE-LA website (www.incose-la.org) or to Paul Su (registration@incose-la.org, or 310-336-2602). Typical remote locations have included one or more of the following sites (check website for current partici-

pating locations):

- Palmdale - Aero Institute - Open Site
- Palmdale - Lockheed and Northrop - Employees only
- Woodland Hills - Northrop Grumman - Employees only
- Sylmar - St. Jude Medical - Employees only
- Long Beach - Boeing - Employees only
- Huntington Beach - Boeing - Employees only
- Pasadena - JPL - Open Site

SPIN/INCOSE LA Joint Meeting

*“Systems Engineering and Software Engineering Processes, Products, and People from a Standards Perspective
(Subtitle: Stand on the Standards)”*

John O. Clark

Chief Engineer, Northrop Grumman Mission Systems

Northrop Grumman
E2 Presentation Center
(in tall building off of Entrance 2),
2299 Marine Ave.
Redondo Beach, CA 90278

January 18, 2008
9:00 a.m. –12:00 noon

On Jan 18, 9 AM-12 PM, John Clark will give a matching presentation on software and system engineering standards to the LA SPIN (Software Process Improvement Network). All INCOSE members are welcome to attend the free SPIN meeting. In the afternoon tutorial, he will present an expanded version of his January 16 presentation.

ABSTRACT: Systems engineering and software engineering continue to be two of the least well-understood engineering disciplines. Knowledge of the systems and software engineering standards significantly aids this understanding, including the relationship between systems and software engineering and the relationship between systems engineering and systems of systems engineering.

The goals of this tutorial are to: 1) describe the systems engineering and software engineering standards heritage, processes, and products; 2) show the relationships between processes, products, and people based on these standards; and 3) encourage and challenge the participants to read, understand, select, tailor, and apply these standards, i.e., "stand on the standards," as opposed to relying solely on other sources such as instructions, procedures, guides, textbooks, education, training, and experience. Individuals may have an understanding of portions of systems and software engineering based on these other sources. Standards, developed by subject matter experts and approved by nationally recognized standards organizations, provide a more

complete and common understanding.

BIOGRAPHY: See January 16 Speaker Meeting Biography

RESERVATIONS: No reservations are needed.

ADMISSION: Free.

DIRECTIONS: Take the 405 Inglewood exit (southbound it's the exit after Rosecrans East, northbound it's the exit just after Hawthorne) and go north on Inglewood Avenue (southbound, turn left at the end of the ramp, northbound, turn right). Turn left at Marine. Go west under the freeway past the railroad tracks and Redondo Beach Avenue to Entrance 2 at Mettler Drive. Turn left into the parking lot. E2 is the tall building to your right. (See page 733 A5 of the Thomas Brothers Guide.)

INCOSE SoSE Tutorial

“Systems of Systems Engineering (SoSE) and Family of Systems Engineering (FoSE) from a Standards Perspective”

John O. Clark

Chief Engineer, Northrop Grumman Mission Systems

Northrop Grumman
E2 Presentation Center
2299 Marine Ave.
Redondo Beach, CA 90278

January 18, 2008
1:00-5:00 p.m.

ABSTRACT: Following the joint meeting, John Clark will present an expanded version of the review presented during the January 16 Speaker Meeting will be presented.

During the tutorial John Clark will also give an expanded 45 min overview of the INCOSE Certified Systems Engineering Professional (CSEP) with possibility of a tutorial in 2008.

ABSTRACT (CSEP): This presentation provides an overview of the International Council on Systems Engineering (INCOSE) Certified Systems Engineering Professional (CSEP) process. The CSEP is an occupational designation that provides confirmation of an individual's qualifications (specific knowledge and/or skill level) in systems engineering. Certification is voluntary. It is neither a barrier nor a gate to entering or exiting a job. However, it may be used as a qualifier in placement or a discriminator in competitive procurements. The CSEP is a formal process whereby a community of performing skilled INCOSE representatives warrants that a person has achieved a level of competency in systems engineering.

The goals of this presentation and SE certification are to:

1. Describe the INCOSE Certified Systems Engineering Professional (CSEP) process
2. Encourage engineers to become INCOSE certified to further

their professional development as a systems engineer, formally recognize their SE capabilities, differentiate them from others within their professional field, help provide competitive advantage to them and their company, and help advance the state of the art and practice of SE.

3. Improve performance, provide key competitive discriminators, and provide robust SE to customers.
4. Strengthen our SE profession.
5. Provide a unified standard of SE excellence.

BIOGRAPHY: See January 16 Speaker Meeting Biography

RESERVATIONS: RSVP is not required, but a quick email or call to Paul Su (registration@incose-la.org, or 310-336-2602) by January 17 will help us ensure sufficient accompanying material.

ADMISSION: TBD. There may be a small charge to cover expenses associated with the tutorial (see website).

INCOSE International Workshop

All INCOSE-LA Chapter members are encouraged to attend this workshop (January 27-29, 2008) that is strictly open to INCOSE members only. This workshop will take place at the Embassy Suites, a casual and comfortable venue which hosted the workshop last year. Aside from the various administrative meetings such as a Chapters Leadership Meeting, the focus of this workshop is to provide the various technical working groups with a place to meet and work on current and future objectives. The LA Chapter has members who chair several working groups: Network Centric Operations, Resilience Engineering, Intelligent Transportation and Transit Systems, and Lean Engineering to name a few. If you are not a member of a working group, then you are still encouraged to attend and join one or more. This workshop is a great way to meet fellow INCOSE members in our Region II domain as well as other regions from around the United States and abroad. Several of the 2007 and 2008 INCOSE-LA Board members will be in attendance. Should you plan to attend, please contact David Boyd at john.boyd@incose.org as he will coordinate a get together of LA

Chapter attendees during the workshop.

2007 Chapter Awards

Each year, the Los Angeles Board of Directors work diligently to deliver interesting monthly speaker meetings, periodic tutorials, panel discussions and mini-conferences. These activities are designed for the members by members of our Chapter. In return, the activities are enriched by having a solid history of excellent discussions or follow-on editorials in our newsletter. These activities are recognized by the Board of Directors at our INCOSE International Headquarters in the form of Chapter Awards. For the past 3 years, the Los Angeles Chapter has received the prestigious Gold Circle award. Awards are based on points and points are earned on a predefined set of criteria and activities that contribute to INCOSE's mission of advancing the Systems Engineering. Points are also earned when members submit papers, present a topic, or outreach to the community. Did you submit a paper or present a topic this year, e.g., other professional societies, INCOSE Insight, panel discussions, Systems Engineering Journal? Did you provide a systems engineering service to your community? If so, we'd like to hear not later than the first week in January as award submittals are just around the corner. Please contact Jim Manson at president@incose-la.org.

Note from the Editor

I'm pleased to introduce the new INCOSE-LA newsletter editor for 2008, Sallie S. Piccorillo. Sallie has been with The Boeing Company over 40 years and is a Boeing Advanced Level Systems Engineer specializing in Systems and Software Engineering and Project Management. She holds a BSIS degree from the University of Redlands and is completing her Certificate in Systems Engineering at UCI.

Eric Belle, 2007 INCOSE-LA Newsletter Editor

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
George Haley	Manager	Northrop Grumman Corporation
Michael Kellogg	System Engineer	HR TEXTRON
Sarah Lizotte	Electrical and Data Systems Designer	Northrop Grumman Corporation
Leticia Muinos		
Frederick (Rick) Roberts		
Mark Sedrak	Systems Engineer	ITT—Gilfillan
Dr. Martin A. Slade	Technical Group Supervisor	JPL/Caltech

INCOSE LA Chapter NEWSLETTER

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**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

Plenary Speakers

Dr. Pat Hale; MIT, INCOSE President
Paul Gartz, Boeing, IEEE Systems Council president
Professor Barry Boehm, Director of Center for Systems and Software Engineering, University of Southern California
Professor 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
William L. Ballhaus, President, BAE Network Systems

Breakout Speakers

Over 60 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



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. Papers are solicited pertaining to research in all these areas.

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). Additionally, CSER 2008 is technically co-sponsored by the IEEE Systems Council, INCOSE's SEANET, MIT's "Systems Engineering Advancement Research Initiative," Institute of Industrial Engineers, and Intelligent Systems Technology, Inc.

General Information

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



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:

2007 Officers and Board

President:	James Manson III	james.a.manson-iii@boeing.com or	president@incose-la.org
Vice-President:	John "David" Boyd	john.boyd@incose.org or	vicepresident@incose-la.org
Past President:	Gina Kostelecky-Shankle	Gina.Kostelecky-Shankle@ngc.com or	pastpresident@incose-la.org
Treasurer:	Marsha Weiskopf	marsha.weiskopf@aero.org or	treasurer@incose-la.org
Secretary:	Lee-Ann Seeling	lseeling@trichord.com or	secretary@incose-la.org
Membership:	Paul Cudney	paul.cudney@incose.org or	membership@incose-la.org
Programs/Speakers:	Jack Elson	jelson@nu.edu	programs@incose-la.org
Ways and Means:	Sherry Pietras	sherry.l.pietras@boeing.com or	waysandmeans@incose-la.org
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Chapter Recognition Chair:	Dana Pugh	Dana.N.Pugh@boeing.com	
Webcast Event Chair:	Benjamin Luong	Benjamin.Q.Luong@boeing.com	
CSER 2008 Conf. Mgmt Chair:	Malina Hills	malina.m.hills@aero.org	
CSER 2008 Conf. Cont. Chair:	Scott Jackson	jackessone@cox.net	

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.