N E W S L E T T E R

Vol. 2: Issue No. 5 November, 2004

INCOSE
INTERNATIONAL COUNCIL ON SYSTEMS ENGINEERING
Los Angles Chapter

SILVER CIRCLE AWARD

UPCOMING EVENTS

INCOSE-LA Holiday Party
Saturday, December 18, 2004

Location
Susan Ruth's House in Whittier
Time
4:00 pm

Dinner Meeting
Tuesday, January 18, 2005

Standard Approach to Trade Studies
Arthur Felix
Naval Air Systems Command – Weapons Division

Location
The Aerospace Corporation
Time
Networking 5:30 pm

Dinner Meeting
Tuesday, February 8, 2005

AP233: A Data Exchange Standard for Systems Engineering
James U'Ren
Jet Propulsion Laboratory

Location
JPL
Von Karman Auditorium
Time
Networking 5:30 pm

Tutorial
February, 2005

TRIZ as An Ultimate Systems Engineering Tool
Rozen Zinowy

Location
Radisson Hotel at the Los Angeles Airport
Time
8:00 am - 5:00 pm

From the President

Year in Review
John C. Hsu

I have written a message and hope that it would be published in the August Newsletter. Unfortunately, the editor is very busy and the publication of newsletter has been delayed. I decide to take the challenge to resume this important activity for the Chapter.

I have to apologize that this is my first message since I have been elected as the President of the Los Angeles Chapter. But I tried to do a good work for the Chapter since the first day of my tenure. I did not start cold for the presidency job. Some of you may know that I have helped the Chapter since August, 1997 when the INCOSE International Conference was held in Los Angeles. Since that time, I have served as session chair and tutorial monitor for both local and international conferences; paper presenter; General Chair of the Mini-Conference held in 2002; and the Vice-President of the Chapter in 2003.

It is near the end of the year and it is about time to compare the results of expectations and accomplishments. The following were the accomplishments so far this year:

1. Held dinner meetings in February on the subject of "National Security Space Acquisition Policy Status."; in May on the subject of "Strategy for Implementing a Systems Engineering Process: Embedding Systemic Accountability in an Executable Model of the PMI PMBoK"; in July on the subject of "Contract-Driven Systems Design: UML 2.0-Based Systems Engineering with Rhapsody®."; in September on the subject of "UML Modeling"., in October on the subject of "Integrating Software and System Reliability"; in November on the subject of "Advanced Project Schedule Risk Analysis" and the second meeting in conjunction with AIAA (American Institute of Aeronautics and Astronautics) on the subject of "System Engineering as a Profession". The details can be referred to the "2004 Dinner Meeting - The Year in Review" in this newsletter.

2. Held tutorials in March on the subject of "Intelligent Systems Engineering."; in June on the subject of "Basic System Engineering Theory and Practice"; in August on the subject of "DOD Architecture Framework: Overview and Application Guidance", and in October on the subject of "The Art

and Science of Systems Architecting". The details can be referred to the "2004 Tutorial – The Year in Review" in this newsletter.

3. Co-Sponsored the CSER (Conference on Systems Engineering Research) with USC (University of Southern California) and Stevens Institute of Technology. Many of our board members and INCOSE members have helped as General Chair, Deputy Chair, Deputy Technical Chair, organizer, session chair and presenter. It was held on April 15-16 at the USC campus and there were approximately 200 attendees.

4. Published 6 newsletters. We have not published the newsletter for July through October. We need your help in contributing feature articles for the newsletter to maintain the continuity of newsletter publication. Please send your feature articles to John Hsu at (714) 762-1452) (john.c.hsu@boeing.com or Mike Anderson at (714) 896-5400 (michael.s.anderson5@boeing.com).

5. Supported the INCOSE Region II/ICSE Joint Conference held in Las Vegas. The Chapter members served as Tutorial/Speaker Chair and Exhibit Chair. We have contributed seed money to the conference and initiated the Boeing Company as a Bronze Sponsor. It was a successful conference. The attendees were about 250.

6. About 15 Chapter members attended the INCOSE International Conference held in Toulouse, France. In that conference, I represented the Chapter to receive the "Silver Circle" award for the chapter's performance in the year of 2003.

7. Held bi-weekly telephone conference to discuss chapter business activities and action item assignments. It has been changed to weekly telecon since 17 September. The members are encouraged to join our telecon. If you are interested, please call me or email me.

8. Held two Chapter Board strategic planning meetings. One was for the planning of goals and activities for the year of 2004. The other one was for the planning of meeting the chapter performance requirements set by the INCOSE Member Board and discussing on how to collect the evidences. The goal is to win a "Gold Circle" award for this year. We need your help from all the members to achieve this ambitious goal.

9. Scott Jackson is a newly elected INCOSE Fellow from our Chapter. We have a total of six (6) INCOSE Fellows from our Chapter.

10. We had Messrs. Axelband, Krueger and Dickerson contrib-

uted articles in INSIGHT. I urge more members to do the same.

11. We have members participating in the review of papers submitted to the Systems Engineering Journal. I urge more members to do so.

12. We have several members participated in the generation of INCOSE Technical Vision. The draft copy was released in November of this year. If you would like to review it before the Vision is finalized, please contact Scott Jackson at (562) 496-5049, email address scott.jackson@boeing.com or me. The due date for the comments to be submitted is 15 December of this year.

13. Our Chapter has contributed to the National Engineer Week (E-Week) which will be held on 20-26 February 2005. We are one of the twenty six Chapters contributed to this event. If you want to participate in National Engineer Week activities, such as, "Zoom into Engineering", "Introduce A Girl to Engineering", "Future City Competition", "Discover E" and "The New Faces of Engineering", please let us know. We will receive E-Week kits that provide materials to help you plan E-Week activities.

On the Horizon

What are we planning to do for the remaining of the year and the future? They are as follows:

1. We would like to win a Gold Circle Award for the Chapter. You may be able to help us collect evidences in the areas of "Execute a chapter publicity plan to broadcast event announcements and reminders", "Create and maintain an 'Ambassador' network to distribute chapter announcements to organizations and societies", "Start or support a student division at a university", "Article on systems engineering", "Technical papers presented by members in a symposium or seminar sponsored or cosponsored by INCOSE", "Chapter sponsors an INCOSE technical group", "Chapter produces an INCOSE technical product", "Perform a systems engineering-related project to assist a community or civic organization", "Host a systems engineering activity/ presentation for pre-college individuals", "Join and participate in local engineering club/council of technical societies", "Provide unpaid speaker to universities, career days, civic organizations, or non INCOSE sponsored conferences or seminars", "Officer or representative make INCOSE presentation to executive in previously unrepresented (in local membership) organization", "Work with another INCOSE chapter on a joint event or provide assistance to another chapter", "Provide unpaid speaker to other INCOSE chapters. Articles (excluding letters to the editor, notices, and chapter summaries) published in INSIGHT", "Chapter member attends INCOSE International Symposium", "Submit nominee for individual INCOSE award (Founder, Fellow, Service)", and "Chapter president or representative attends Chapters Committee meeting at International Work-

shop", etc. If you have accomplished any of these areas, please let me know and send the evidences to me. Then our Chapter can receive points and credit in these areas toward the Gold Circle Award.

2. We definitely need your help in contributing feature articles to the monthly published newsletters. Please refer to the above No. 4 of past accomplishments for contact information.

3. We have 5 Boards. They are Programs/Speakers, Systems Engineering Education/Tuitorial, Membership, Ways and Means and Communications. Please join one or more of the boards to help the Chapter grow and contribute to the INCOSE and Systems Engineering community.

Currently, we are the 3rd largest Chapter in the world based on the membership enrollment and definitely a leading chapter. We have many members served in INCOSE leadership positions and enjoy worldwide reputation. I hope that more members be involved in the Chapter activities to further enhance our ranking and leadership. If you are interested in joining any INCOSE Working Groups or any Chapter Boards, please let me know. We will be glad to provide information and help you in every way that we can. If you have any comments and suggestions for the goodness of the Chapter and INCOSE, we would like to hear from you.

John C. Hsu

2004 Dinner Meetings
The Year in Review

Gina Kostelecky-Shankle

Amidst all of the activities mentioned in the President's message, the Los Angeles Chapter of INCOSE also managed to have seven Dinner Meetings in 2004 at which an outstanding group of speakers educated and enlightened our members on a broad range of subjects. Andy Guillen from The Aerospace Corporation started off the year in early February with an informative presentation on the *National Security Space Acquisition Policy Status*. Our next dinner meeting in May featured Alison Boardman of Elipsis Inc. who traveled all the way from Orlando, Florida to share her knowledge with us. Her presentation on a *Strategy for Implementing a Systems Engineering Process: Embed-*

ding Systemic Accountability in an Executable Model of the Program Management Institute (PMI) Program Management Book of Knowledge (PMBoK) was very well received by attendees and was an excellent example of how systems engineering overlaps other fields such as program management. Our July Dinner Meeting also featured a speaker who traveled quite a distance in order to share his knowledge and expertise with our chapter. Dr. Hans-Peter Hoffmann of I-Logix, a renowned expert in the field of model based system development, gave an enlightening and entertaining presentation on *Contract-Driven Systems Design: Unified Modeling Language (UML) 2.0-Based Systems Engineering with Rhapsody®*. For our September meeting, Rick Steiner of Raytheon braved the Thursday afternoon traffic from San Diego to provide our chapter with the latest information on *SysML™: UML™ for Systems Engineering*. Our October dinner meeting, which was conducted jointly with the Los Angeles Software Process Improvement Network (LA SPIN), provided Myron Hecht of The Aerospace Corporation with a forum to enlighten us on his approach to *Integrating Software and System Reliability*. Program Management Institute – Los Angeles (PMI-LA) jointly sponsored our first November meeting which featured a presentation by Dr. David Hulett of Hulett & Associates Project Management Consultants on *Advanced Project Schedule Risk Analysis*. Our second November meeting, which was held in conjunction with the Los Angeles chapter of the American Institute of Aeronautics and Astronautics (AIAA), featured an outstanding presentation by Wes Bush of Northrop Grumman Space Technology on *System Engineering as a Profession*. For those of you who were either unable to attend these presentations or are simply interested in the topics, softcopies of most of the presentations can be found on the INCOSE-LA website (www.incose-la.org).

We are very grateful for the efforts expended by each of the 2004 Dinner Meeting speakers. As a token of our appreciation for their time, efforts and willingness to share their expertise with our chapter, each speaker was presented with an INCOSE-LA engraved pen set.

2004 Tutorials
The Year in Review

Anna Warner

An overview of the tutorial status is shown in the table below.

There were 118 participants for the Tutorials. The Breakdown

LA Chapter - 2004 Tutorials

Date	Day	Presenter	Title	Location	Attendance
6-Feb-04	Saturday	Jack Ring	Intelligent Systems Engineering	Radisson	18
5-Jun-04	Saturday	Scott Jackson	Basic Systems Engineering Theory and Practice	Boeing	17
6-Aug-04	Friday	James Martin	DODAF Architecture Frameworks	Boeing	48
9-Oct-04	Saturday	Mark Maier	The Art and Science of Systems Architecting	Radisson	35

by Company was: Boeing - 45% (53 attendees), Northrop - 16% (19 attendees), JPL 10% - (12 attendees), Aerospace – 10% (12 attendees), Raytheon – 5% (6 attendees), Other companies – 14% (16 attendees)

Each tutorial was very positively evaluated by participants as: "I could use at work the day after the seminar"; "Very useful", "I've enjoyed it a lot!", etc. The participants request the Tutorials to be presented again in the near future.

As a token of our appreciation for the instructor's time, efforts and willingness to teach members in our chapter, each instructor was presented with an INCOSE-LA engraved pen set.As a token of our appreciation for the instructor's time, efforts and willingness to teach members in our chapter, each instructor was presented with an INCOSE-LA engraved pen set.

MINI-CONFERENCE 2005

There was no Mini-Conference this year since we co-sponsored the CSER (Conference on Systems Engineering Research) as mentioned in the President's message. However, we are going to have a Mini-Conference in June, 2005. Robert Rassa from Raytheon has graciously accepted the position as General Chair. Andrea Amram from The Aerospace Corporation has also graciously accepted the position as Technical Chair. The Theme for this Conference has not been determined yet. If you would like to present a paper or you have any suggestions, such as, the theme of this Mini-Conference or other areas, please contact Bob Rassa at rcrassa@raytheon.com or Andrea Amram at andrea.l.amram@aero.org.

Elections 2005

The 2004 Board is proud to present to the membership the following slate of candidates for the 2005 Officers and Board of Director for the Los Angeles Chapter of INCOSE.

As members of the LA Chapter you will be requested to vote on this slate of candidates. Voting will be done through the LA INCOSE Website, http://www.incose-la.org/vote/voting2005.htm. The voting booth will open on Monday November 29th and close on Friday December 31st.

Best Regards,
Chair of the Nominating Committee

Officers

President:
Dennis Schwarz, Director –Product Processes & Tools, AFS Engineering & Operations for The Boeing Company, was born in Utah. Dennis is a graduate of the University of Utah in mechanical engineering and has his MBA from Loyola Marymount University. He joined Boeing (then McDonnell Douglas) in 1985 in a manufacturing career development

program. Dennis spent several years working commercial and military aircraft programs in manufacturing engineering and tooling before moving into engineering. In addition to manufacturing engineering, he has held positions in the program office, engineering, advanced programs and commercial aircraft modification services. Prior to his current assignment, he served as Director of Systems Engineering for the C-17 Program. Currently, Dennis is Director of Product Processes & Tools for Boeing Air Force Systems. Dennis has been participated in INCOSE-LA as the General Chair for the 2003 Mini-Conference and as the Chapter's 2004 Vice-President. Dennis is married to Vida and they have one daughter, Kiana. They reside in Los Angeles.

Vice President:
Gina Kostelecky-Shankle, a Senior Systems Engineer for Northrop Grumman, has provided systems engineering support to numerous aircraft and space programs over the course of her 17-year career. While at the B-2 Division of Northrop Grumman Corporation, she was a technical focal point for the development and acquisition of support equipment for the B-2 Bomber. In this capacity she was responsible for defining requirements for support equipment and for ensuring that contractors developed and delivered equipment that met those requirements. While employed at Northrop Grumman, Ms. Kostelecky- Shankle attended the University of Southern California on a part-time basis and received a Master of Science degree in Industrial and Systems Engineering. Ms. Kostelecky-Shankle also worked for The Aerospace Corporation where she provided a wide range of systems engineering support to numerous military and civil space programs. Ms. Kostelecky-Shankle recently returned to the Mission Systems Sector of Northrop Grumman Corporation where she is currently supporting the Transformational Communications MILSATCOM program. Ms. Kostelecky-Shankle joined INCOSE in 2002 and has been an active member of INCOSE-LA ever since – she served as one of the Technical Co-Chairs for the 2002 INCOSE-LA Mini-Conference and is the current Programs Chair.

Treasurer:
Marsha V. Weiskopf, Director IST for The Aerospace Corporation, has over 20 years experience in both military and commercial communications systems. She joined The Aerospace Corporation in 1993, and since Oct 2002, she has been the Systems Director for the International Space Technology Department in the Strategic Awareness and Policy Directorate, also known as Project West Wing. Marsha also has over 10 years experience at The Hughes Aircraft Company's Space and Communications Group where she provided communications engineering support to several commercial and classified military programs. Marsha is the current Treasurer of the LA Chapter of INCOSE.

Secretary:
Dr. Karen Miller is a Systems Engineer on the F-18 program at Northrop Grumman specializing in Life Cycle Cost. She also

creates and implements Cost Reduction Initiatives and Lean Events for the Program. Prior to this, Karen was a Supportability Project Manager for several Northrop programs. She teaches Systems Engineering courses at Loyola Marymount University on Tuesday evenings, and has taught courses at USC.

Board of Director (2 years term)

Programs/Speakers:
Jim U'Ren, a graduate of the University of Missouri, has worked for twenty-eight in the public and private sectors. Jim joined the Jet Propulsion Laboratory in Pasadena, California, in 1983 and served as the Information Systems Manager for the Keck Observatory Project in the late-1980s where he implemented network and information services based on early Internet technologies. As the Manager of JPL's Engineering Data Management Development Team, he implemented a standards-based engineering data management system integrating the Web and various Internet technologies with commercial PDM and CM tools. Following the EDM assignment, he managed JPL's Design Hub that provided a full range of CAE tools and services to JPL projects. Jim currently chairs the STEP Systems Engineering Team (AP233) which is developing modular data models for the systems engineering domain that will enable data exchange and integration of product data. Jim has taught information technology courses as an instructor at UCLA's School of Engineering and Management and was the recipient of the 2004 Brad Rigdon Technical Management Award by the PDES Inc consortium.

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

Last Name	First Name	Company	Last Name	First Name	Company
Badia	Logan	Boeing	Bell	Julia	JPL
Bohn	Tim	IBM	Boyd	John	GE
Bradford	Kathleen	Northrop Grumman	Brickley	Laureen	IBM
Brown	A. W.	USC	Camp	David	Windgam
Chandler	James	Naval Surface Warfare	Chesley	Bruce	Boeing
Claeys	Henry	Honeywell International	Clark	Daniel	Boeing
Cowan	Deborah	JPL	Daniell	Matthew	Northrop Grumman
Dashofy	Eric	UC Irvine	de Windt	Frank	The Aeon Group
Dickey	Brian	Capstone Turbine	Feather	Martin	JPL
Gavit	Sarah	JPL	Gilliam	David	JPL
Gumz	Joy	LLC	Honda	Mark	Boeing
Hynds	Gary	Palomar Products	Iyer	Ganesh	Boeing
Johnson	Garold	Abacus	Jones	Ross	JPL
Karlsson	Joachim	Focal Point US	Kelley	Patricia	Boeing
Kern	Konrad	Boeing	Kim	Paul	Boeing
Knopp-McKendree	Ursula	Boeing	Kroboth	Daniel	Northrop Grumman
Lee	David	Northrop	Lee	Sue	Northrop Grumman
Lewicki	Chris	NASA JPL	Maar	Michael	
Maddox	Christopher	Boeing	Madewell	James	Madewell Group
Mathur	Ashok	The Aerospace Corporation	Mendenhall	Valerie	Northrop
Navarro	Aldo	Raytheon	Naviaux	Keith	NASA - JPL
Nichols	David	JPL	O'Donnell	Elizabeth	Boeing
Phan	Tuan	Honeywell	Pingston	Ted	Parker Aerospace
Quinones	Edwin	Boeing	Rahim	Shaffiq	Boeing
Robinson	Dardenella	Northrop Grumman	Rosenberg	Charles	Northrop
Shiba	Dennis	Boeing	Skramstad	Richard	The Aerospace Corporation
Smith	Tyrrel	Northrop Grumman	Starks	Ken	USPS
Stephen	Suzanne	Boeing	Taylor	Kim	Joint Intelligence Center Pacific
Thomas	James	Raytheon Company	Travis	Tim	Northrop Grumman
Tsai	Jennifer	The Boeing Company	Wilf	Lori	Northrop Grumman
Williamson	Joel	JPL	Yoshinaga	Ron	Raytheon Company
Zanca	Tim	Teledyne-Brown			

INCOSE LA Chapter   NEWSLETTER
Vol. 2: Issue No. 5   November, 2004

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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:

2004 Officers and Board

Position	Name	Email	Chapter Email
President:	John Hsu	john.c.hsu@boeing.com or	president@incose-la.org
Vice-President:	Dennis Schwarz	dennis.c.schwarz@boeing.com or	vicepresident@incose-la.org
Past President:	Michael L. Dickerson	simimike@earthlink.net or	pastpresident@incose-la.org
Treasurer:	Marsha Weiskopf	marsha.weiskopf@aero.org or	treasurer@incose-la.org
Secretary:	Karen Miller	karen.miller@ngc.com or	secretary@incose-la.org
Membership:	Paul Cudney	Paul.f.cudney@lmco.com or	membership@incose-la.org
Programs/Speakers:	Gina Kostelecky-Shankle	Gina.Kostelecky-Shankle@ngc.com or	programs@incose-la.org
Ways and Means:	Ronald Williamson	ronald.w.williamson@aero.org or	waysandmeans@incose-la.org
Tutorials/Education:	Anna Warner	anna.warner@boeing.com or	setraining@incose-la.org
Communications:	Paul Su	paul.k.su@aero.org or	communications@incose-la.org

Those interested in INCOSE membership wanting to be placed on our E-mail distribution please contact Paul Cudney - Paul.f.cudney@lmco.com or Newsletter Editor – John C. Hsu – john.c.hsu@boeing.com .