



NEWSLETTER



2002, 2004-12



2003



2008, 2012
President's Award
for Most
Outstanding Chapter



The Year in Pictures:

Throughout this edition of the Newsletter, you will find pictures of the lighter side of INCOSE-LA — a few of those moments when we focused on the enjoyment we derive from our membership and volunteerism.

2014 Where We Are Going: The Chapter's Vision and Goals

By President Mike Wallace

It is with overwhelming joy and a great sense of humility that I accept the offer to lead such an outstanding chapter as the Los Angeles Chapter of INCOSE. To give you a quick explanation of why I am so proud, there are over 70 chapters within the three sectors of INCOSE; in the past twelve years, INOSE LA Chapter has received 11 Gold Circle Awards and one Silver Award. Last year, we received the President's Award for outstanding chapter at the International Symposium. This is all due to the volunteer support from our participating members and Board of Directors. We have such a diverse group of members who possess a plethora of systems engineering knowledge and experience. Our members and Board of Directors dedicate countless hours toward advancing the systems engineering body of knowledge through sharing, collaboration, and dissemination of systems-engineering-related topics.

In addition being joyful and grateful in accepting this position to lead and represent a great team, I am also humble in recognizing that not only do I have big shoes to fill in following our past President, Eric Belle, but I have a torch to carry so that our chapter's beacon of light will shine in 2014. We have a few major events in our area that the INCOSE-LA Chapter is either directly involved with or is supporting. We have the International Workshop scheduled in Torrance for January 25 through 28. We have the Conference on Systems Engineering Research, which the INCOSE-LA Chapter is co-sponsoring

(See "Vision for 2014" on page 2)



The year-end Holiday Party at the Marina Del Rey Yacht Club featured fellowship, networking, fine dining, and a gift exchange, including the "LEAN WORKS" stealth saucer pictured here.

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Upcoming Events

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Your 2014 Officers and Board of Directors

The members of the 2014 Board of Directors are:

- Mike Wallace, President
- Stephen Guine, Vice President
- Scott Birtalan, Secretary
- Harvey Soldan, Treasurer
- Eric Belle, Immediate Past President
- Yvette Rodriguez, Systems Engineering Training Committee Chairperson
- Paul Cudney, Ways and Means Committee Chairperson
- Shirley Tseng, Programs Committee Chair Person
- Sam Bertic, Membership Committee Chairperson

Chapter members serving in appointed positions are:

- Beth O'Donnell, Chapter Awards Manager
- Susan Ruth, Reflector Manager
- Jorg Largent and David Murray, *Newsletter* team

The 2013 webcast team comprised:

- Beth O'Donnell, coordinator
- Scott Grant at Control Point
- Michela Munoz-Fernandez at JPL
- Michael Wallace in the Antelope Valley
- Mark Wroth and Louise Fluegeman at various Northrop facilities
- Susim Gedam at Capstone Turbine in the San Fernando Valley

Members in additional leadership positions are:

- Shirley Tseng, who served as Technical Society Liaison for 2013.
- Stephen Guine, who continues as the representative to the San Fernando Valley Engineering Council
- Jose Garcia, who is responsible for Industrial Relations
- Scott Birtalan, the networking chair and the ambassador to the Loyola Marymount Student Division
- John Silvas and Jessica Mubarak, the ambassadors to the University of Southern California Student Division
- Collette Kurtz, the Chapter's New Member Ambassador.

(“Vision for 2014,” continued from page 1)

with the University of Southern California. And we have the International Symposium in Las Vegas Nevada in June, which the INCOSE-LA Chapter will be supporting. The success of these events is predicated on our chapter's support and involvement. We are expected to represent our Chapter's past performance through volunteers and to shine bright this year.

My primary objective for 2014 is to continue to increase the value of membership by continuing our longstanding efforts in providing timely and informative speaker meetings, communications, and tutorials for our members. I would also like to continue our efforts in reaching out to the local schools and universities through our existing Student Division networks. In addition, we will continue our collaborative opportunities to bilaterally share knowledge with industries, academia, and other chapters. By focusing on these primary objectives, we will continue to align with the INCOSE mission, vision, and goals that have been established at the corporate level.

Again, it is an honor to represent the Los Angeles Chapter as the 2014 President. I would like to thank the voting body, the past Board of Directors, and all of the past Presidents who have helped to make this an outstanding chapter. I appreciate this opportunity, and I look forward to working with the newly-elected board members and other volunteers to continue to serve our membership in a meaningful way this year.



INCOSE-LA 2013 Membership Chairman Paul Cudney and other partygoers enjoying the hors d'oeuvres and preprandial libations at the 2013 Holiday Party held at the Marina Del Rey Yacht Club.



Bons vivants at the 2013 INCOSE-LA Holiday Party.

INCOSE-LA Chapter NEWSLETTER

Vol. 12, Issue 1: February – March 2014

January 2014 Town Hall Meeting

By Jorg Largent

The January meeting of the INCOSE-LA Chapter did not feature the usual speaker. Instead, this meeting was to induct the new officers for 2014, to recognize the contributions of the many volunteers who tirelessly contributed to the operation of the Chapter, and primarily (in terms of time) to hear from the members.

INCOSE Fellows Dr. Elliott Axelband and Dr. Azad Madni officiated at the induction. Dr. Axelband's distinguished career spans decades and includes Hughes Electronics Company, from which he retired as a vice president and general manager in 1993. In 1994 he joined the University of Southern California (USC) School of Engineering where he served as the Associate Dean for Research and Development, Director of the Graduate Program in Systems Architecting and Engineering, and a Research Professor of Electrical Engineering. He also began his consulting practice at the RAND Corporation at that time, as well as participating on several company boards as a Director. He retired from USC in 2003, and became a RAND Senior Engineer.

Dr. Azad Madni is a professor and the Director of the Systems Architecting and Engineering program in the Daniel J. Epstein Department of Industrial and Systems Engineering at the University of Southern California.

Dr. Madni shared some introductory remarks upon the state of the profession and future challenges. The changes in the nature of systems are changing the manner in which systems engineering problems are solved. While the fundamentals of the process are unchanged, new tools are needed to perform the process, just as new tools were needed with the introduction of electricity on a large scale a century ago, for example, or with the introduction of software intensive systems. Dr. Madni noted the introduction of UML (Universal Modeling Language) as a tool, followed by SysML (Systems Modeling Language).

Dr. Madni commented that systems engineering needs increasingly to incorporate soft sciences and resilience. Some of the concepts coming into use include social networking, flipping the classroom (do what you used to do outside the classroom in the classroom, and do what you used to do in the classroom outside the classroom), and peer-to-peer learning. Dr. Madni talked about using "experiential learning" by harnessing cinematic arts (another highly successful school at USC) so that students can learn by experiencing problems and then

determining their solution. With a nod to iPods, another new teaching concept is "iPodia," or "no distance learning." One of the attendees asked about MIT offering free courses; they are collaborating with Dr. Madni and USC on this and more.

Mike Wallace, 2014 President, presented the recognition awards, standing in for Eric Belle, 2013 President, who was unavoidably detained. Michael relayed Eric's thanks and appreciation to the 2013 Board of Directors and volunteers.

Rosalind Lewis was given the 2013 Susan C. Ruth Award for her continued and continuous long-term service to the Chapter. Roz has been active in the Chapter for many years, having served as Vice President (2009) and President (2010) and having led and helped with many other activities.

The 2013 President's Award for Outstanding Service was given to Scott Birtalan. Scott worked tirelessly at initiating, coordinating, and facilitating networking events throughout the Greater Los Angeles area and provided invaluable inputs to the Board of Directors and Strategic Planning Meetings.

A special recognition award was given to Dick Emerson and Harvey Soldan for their contributions to and leadership of the highly successful 2013 Chapter-hosted conference.

HAVE YOUR SAY:

**COME TO THE STRATEGIC PLANNING MEETING
FEBRUARY 8, 2014 AT 9:00 A.M.
LIGHT LUNCH PROVIDED; NO COST
NORTHROP GRUMMAN SPACE CAMPUS
IN REDONDO BEACH
STAND BY FOR A REFLECTOR NOTICE**

The town hall portion of the meeting provided some spirited discussions and valuable inputs for the Strategic Planning Meeting. Several members identified what lends value to the Chapter for them. Karen Groffi commented that keeping cost low is one good thing we do. Dana Samuel said that she found value in keeping members informed of events, which segued to a discussion of various media the Chapter might use. Jessica Mubarki noted that networking can lead to jobs. Dick Emerson and Roz Lewis expressed appreciation for the variety of topics covered in the Speaker Meetings and tutorials; Dick recommended members attend events they might not find immediately interesting; "you might be surprised," he said. Paul Cudney cited distance communicating and remote sites for our Speaker Meetings.

(See "Town Hall Meeting" on page 10)

MEET THE LEADING SYSTEMS ENGINEERING RESEARCHERS!

SHOWCASE WHAT YOUR ORGANIZATION HAS TO OFFER!

**BE A SPONSOR OR AN EXHIBITOR AT
CSER 2014, MARCH 21 – 22**

**CONTACT TERRY RECTOR AT TERRY.RECTOR@INCOSE.ORG
FOR DETAILS.**

Sponsors!

Exhibitors!

INCOSE-LA Chapter NEWSLETTER

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Dr. "Bo" Oppenheim getting ready to test drive the Tesla all-electric automobile at the Chapter Holiday Party.

Paul Cudney and DeAnna and Brian Regabulto enjoying the Holiday Party festivities.



Dr. Lenard Troncale and Dr. John Martin of the Systems Science Working Group relax at the INCOSE-LA soiree during the 2013 International Workshop in Jacksonville, Florida.

INCOSE-LA Chapter NEWSLETTER

Vol. 12, Issue 1: February – March 2014

Systems Engineering

Online Certificate Program



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



Courses start April 7, 2014

- System Design and Integration
- Systems Engineering: Tools and Methods



For more information:

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

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extension.uci.edu/systemseng

Conference on Systems Engineering Research

Coming to Los Angeles, March 21 — 22, 2014

By Terry Rector

Looking for a way to get more involved in the systems engineering community? Here's your chance! The Conference on Systems Engineering Research 2014 (CSER 2014) is just around the corner.

CSER 2014, managed by our own INCOSE-LA Chapter, offers each of us the opportunity to interact with systems engineering professionals, researchers, and academics from around the world. This international event is jointly sponsored by the University of Southern California and the Los Angeles Chapter of the International Council on Systems Engineering, in collaboration with Stevens Institute of Technology and MIT.

CSER 2014 provides participants a forum to present, discuss, and influence systems engineering research, and provides access to forward-looking systems engineering research. This two-day event will be held March 21–22 at the Crowne Plaza Redondo Beach & Marina Hotel in Redondo Beach, California. INCOSE-LA has a key role in making this event successful; we need your help in several different ways.

- First, we need you to work within your company to promote the conference. You can do this by downloading the flyer, printing it, and posting it in open areas to generate discussion and encourage registration for attendance. Talk the conference up amongst your co-workers and friends. Website registration is OPEN! (Go to <http://www.incose-la.org/events/conferences/cser-2014-welcome/cser-2014-registration.html>.)

- Next, we need your help to work within your company to locate funding for sponsorship and/or exhibiting. There are many ways in which your company can sponsor this conference, either with cash or in-kind contributions. Doing so will not only promote the conference but also offer your company marketing opportunities. If you prefer not to solicit funding yourself, then please provide us a contact, and we will call and ask if sponsorship is available. Either way you will be a big help to the conference as well as to our INCOSE chapter. For more information regarding sponsorship or exhibiting, contact Terry Rector at terry.rector@scientist.com, and/or Shirley Tseng at shirleytseng@earthlink.net.

- Lastly, we need volunteers for conference positions. As we near the conference date and get prepared to host visitors both near and far, we request that you lend your time and talent to making CSER 2014 the best yet. We have volunteer opportunities to fit your availability and are excited to have you join us. If you are also excited about what this event means to systems engineering and to the INCOSE-LA Chapter, please contact Harvey Soldan (harvey.soldan@jpl.nasa.gov) for volunteer opportunities.

Don't miss your opportunity to get involved and make a difference! CSER 2014 is shaping up to be a well-attended international technical research conference where everybody will learn something. Come join us!



2014 Chapter President Mike Wallace at the Critical Design Review of the Pete Knight High School Rocket Team in Palmdale, California.

Engineered Resilient Systems: Challenges and Opportunities in the 21st Century

March 21–22, 2014, Redondo Beach, CA

www.incose-la.org/cser2014

FEATURED KEYNOTE SPEAKER

Dr. Wanda Austin
President and CEO
The Aerospace Corporation

TOPICS

- Autonomous Resiliency Research and Applications
- Model Based Systems Engineering
- Value-based, Lean, Agile Systems Engineering
- Cybersecurity and System Security Engineering
- Social Networks and Graph Theory
- Early Stage Design Concepts and Economic Value of “ilities”
- Uncertainty and Complexity Management in Complex Systems
- Systems Architecting and Tradespace Analysis
- Cognitive Engineering and Human-Systems Integration
- Big Data and Analytics
- Cyber-Physical-Social Systems
- Systems/Critical Thinking

REGISTRATION DATES

Early Registration	Sep. 20, 2013 - Jan 26, 2014
Normal Registration	Jan. 27, 2014 - Mar. 9, 2014
Late Registration	Mar. 10, 2014 - Mar. 21, 2014

The University of Southern California
in collaboration with the Stevens
Institute of Technology presents the
12th 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 topic areas.

Conference Honorary Chair

George Friedman (USC)

Conference General Co-Chairs:

Azad M. Madni (USC)

Barry Boehm (USC)

Technical Program Co-Chairs:

Marilee Wheaton (The Aerospace Corporation)

Michael Sievers (JPL)

Conference Management Co-Chairs:


Terry Rector (Irvine Sensors Corporation)

Rosalind Lewis (The Aerospace Corporation)

MILESTONES

Final Notification to Authors	Dec. 13, 2013
Submission of Final Paper	Jan. 10, 2014

GENERAL INFORMATION

 For information about registration, hotel, location, financial support and other subjects, see the CSER 2014 website at www.incose-la.org/cser2014



SYSTEMS INTEGRATION ENGINEERING

GRADUATE CERTIFICATE PROGRAM AT CAL POLY, SAN LUIS OBISPO

Apply online at csumentor.edu by April 1st, 2014

FOR MORE INFORMATION ABOUT THE PROGRAM, VISIT: sie.calpoly.edu

The Online Systems Integration Engineering (SIE) Graduate Certificate is intended for working engineers aspiring to take on additional technical responsibility and move into leadership roles in their organizations.

The goal of the SIE Graduate Certificate is to prepare discipline-specific, working engineers for additional responsibility and leadership positions in socio-technical organizations. Upon completion of the program, participants will have broad knowledge in many diverse, technical disciplines that will allow them to integrate system elements into a set of solutions that satisfy customer needs within budget and schedule constraints.

About the Program

- Three **ONLINE** 10-week courses (13 units)
- Introduction to Systems
- Systems Analysis
- Systems Integration
- Classes in Fall, Winter, and Spring quarter
- Can be applied towards Masters degree

Admission Requirements

- Bachelor's degree in engineering or relevant field
- Minimum 2.5 GPA
- Two years of engineering work experience



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UPCOMING 2014 DELIVERIES

Requirements Analysis and Specification Writing	
April 7 - April 11	Las Vegas, NV
August 25 - August 29	Las Vegas, NV
October 20 - October 24	Boston, MA
Systems Engineering	
February 10 - February 14	Las Vegas, NV
June 2 - June 6	Las Vegas, NV
September 15 - September 19	Las Vegas, NV
Systems Engineering Management	
April 28 - May 2	Austin, TX
August 11 - August 15	Washington, DC
November 3 - November 7	Las Vegas NV
Software Engineering	
September 29 - October 3	Washington, DC

Learn how to achieve project success

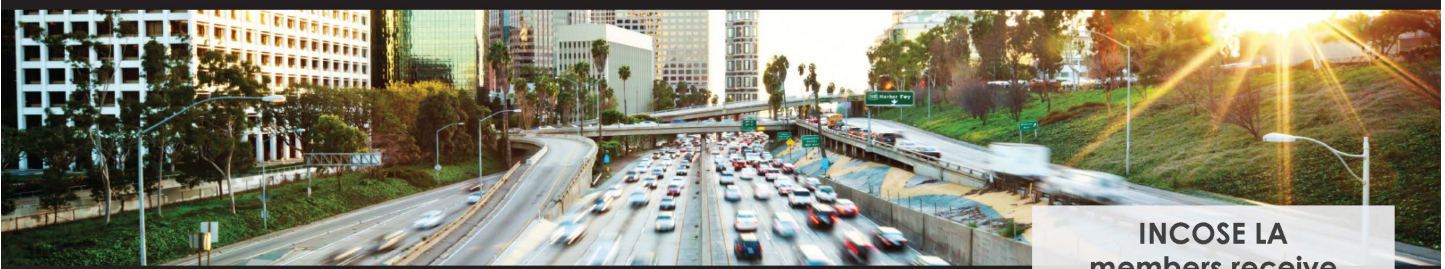
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members receive
\$200 discount**
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CSEP PREPARATION TRAINING 4-DAY COURSE

SOME UPCOMING USA DELIVERIES

10 Feb - 13 Feb 2014	San Diego, CA
28 April - 1 May 2014	Albuquerque, NM
12 May - 15 May 2014	Denver, CO
9 June - 12 June 2014	Minneapolis, MN
23 June - 26 June 2014	Baltimore, MD
21 July - 24 July 2014	Las Vegas, NV

TESTIMONIALS

"Your instruction was fantastic. I learned a great deal. Without it, I doubt that I would have been able to pass the exam the first time around, nor would I have been motivated into creating this tool."

Delegate, Honeywell TSI, USA

"The instructor was very knowledgeable well-prepared, pleasant and accommodating. I would recommend this course to others."

Delegate, Booz Allen Hamilton, USA

www.certificationtraining-int.com



("Town Hall Meeting," continued from page 3)

The attendees had several suggestions regarding areas of potential improvement. One suggestion was to keep Chapter members informed about other organizations' events, to which Dick Emerson suggested more common events with other professional organizations in the area. Yvette Rodriguez suggested establishing a plan of action and expectations with respect to the Student Divisions in the Los Angeles area.

One topic was the use of electronic media and traditional "hard copy" media. Echoing Dr. Madni's comments, the group noted the value of the traditional methods of communication even as the Chapter needs to include more social networking

media. The Chapter website was a part of this discussion, which brought up brought up an aside: is there anything wrong with the site in light of its intended purpose? The "how-to" details of these discussions were deferred to the Strategic Planning Meeting in February.

Time ran out before those in attendance were finished talking, but there is always the aforementioned Strategic Planning Meeting at which the discussions can be resumed and resolutions determined. The Board of Directors would like to thank those members who took the time to attend and to provide their valuable inputs. The Board would also like to express its appreciation to the members and volunteers who have done so much to make this Chapter of value to the membership at large.



Bons vivants at the 2013 INCOSE-LA Holiday Party. *(left)*

INCOSE-LA 2013 President Eric Belle and Jorg Largent mentored systems engineers from Korea at the 2013 International Symposium in Philadelphia. *(right)*



DeAnna and Brian Regalbuto visit with Mike and Deborah Wallace at the 2013 Holiday Party. *(left)*

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

Note: The information listed below is from the member directory and is based upon your initial membership application. If the information is not correct or complete, then please access the member directory (at www.incose.org) to update your information.

Name	Title	Company or Organization
Anna Haney	Lean Inventory Team Lead	Raytheon
Paulette Acheson	Engineer	The Aerospace Corporation
David Hillshafer	Capt/Chief Space Vehicles, IRRT	SMC/ Airforce
Candice L McCarty	Legal Assistant	California Association of Realtors
Michael (Mike) E Sondheim	Sr Systems Engineer	Raytheon
John W Dowdee	Program Manager	Northrop Grumman
John E Woelfel	Quality Oversight Manager / Construction Program Manager	HNTB Corporation
Daniel (Dan) Jon Benjamin	Director - West Coast Operations	Millenium Engineering and Integration
Marjory T Bernard	Terminal Lead	Leidos
Raymond (Andy) A Hill	Naval Aviator / Officer	United States Navy
Timothy Haile		Michael Baker Jr, Inc

2014 Board of Directors

Elected Officers			Elected At-large Directors		
President	Michael Wallace	m.wallace@ngc.com	Membership	Sam Bertic	
Vice President	Stephen Guine	Stephen.Guine@ngc.com	Programs	Shirley Tseng	shirleytseng@earthlink.net
Immediate Past President	Eric Belle	eric.belle@incose.org	Systems Engineering Education	Yvette R odriguez	usc.chica@gmail.com
Secretary	Scott Birtalan	scott.birtalan@ngc.com	Ways and Means	Paul Cudney	paul.cudney@incose.org
Treasurer	Harvey Soldan	harvey.soldan@jpl.nasa.gov	Communications	DeAnna Regalbuto	deanna.regalbuto@verizon.net
Appointed Positions			Student Division Ambassador	Scott Birtalan	scott.birtalan@ngc.com
Newsletter Editor	Jorg Largent	jorg.largent@incose.org	Reflector Manager	Susan Ruth	susan.c.ruth@aero.org
Technical Society Liaison	Shirley Tseng	shirleytseng@earthlink.net	Industrial Relations Manager	Jose Garcia Jr.	jose.s.garcia-jr@boeing.com
Chapter Recognition Manager	OPEN		Website Technical Manager	OPEN	
Professional Networking Chair	Scott Birtalan	scott.birtalan@ngc.com	Lead Site Coordinator	OPEN	
Representative to the SF Valley Engineer's Council	Stephen Guine	Stephen.Guine@ngc.com			

INCOSE-LA Chapter NEWSLETTER

Vol. 12, Issue 1: February – March 2014

Return Address:

**PO Box 10969
Westminster, CA 92685-0969**

Forwarding Service Requested

The International Council on Systems Engineering (INCOSE) is a not-for-profit membership organization founded to develop and disseminate the interdisciplinary principles and practices that enable the realization of successful systems. INCOSE's mission is to share, promote, and advance the best of systems engineering from across the globe for the benefit of humanity and the planet. The Los Angeles Chapter meets several times per year for speaker meetings and, in addition, sponsors tutorials, mini-conferences and other activities of interest to those in systems engineering or related fields.

UPCOMING EVENTS

For more details on Chapter-sponsored events and registration, go to <http://www.incose-la.org>

Strategic Planning Meeting

Date: Saturday, February 8, 2014

Time: 9:00 a.m. – 3:00 p.m.

Cost: free for members; a buffet luncheon will be served

Location: Northrop Grumman Space Campus, Redondo Beach

See Reflector Notice in your email for details

Networking Event in the Antelope Valley

Date: Thursday, February 20, 2014

Time: 5:30 p.m. – 8:00 p.m.

Location: Bravery Brewing, 42705 8th St. W.

Lancaster, California 93534

Look for a Reflector Notice in your email or check the Chapter website

Speaker Meeting

Systems Engineering Leadership

Date: Tuesday, February 11, 2014

Time: 5:30 p.m. – 9:00 p.m.

Cost: Free for members; \$10.00 for non-members

See Reflector Notice in your email for details

Joint Meeting with SPIN GSAW

Date: Wednesday, February 26, 2014

Start time: 5:30 p.m. – 7:00 p.m.

Dr. Barry Boehm will speak on:

Coping with the Ilities:

Ilities Tradespace and Affordability Analysis

Location: Renaissance Los Angeles Airport Hotel

See Reflector Notice in your email for details

The 2014 Conference on Systems Engineering Research (CSER)

March 21 – 22, 2014

Crowne Plaza Hotel, Redondo Beach

See pages 6 and 7