# Dec 2015 Newsletter

**Newsletter Highlights:**

✓ Dec 9th Holiday Social Event
✓ Upcoming INCOSE San Diego survey
✓ December elections for the INCOSE San Diego board
✓ CALL FOR PAPERS for the Regional Conference

www.sdincose.org

## From the President:

*The Little Chapter that Could.*

Now that we are approaching the end of this calendar year, I am amazed at how swiftly the time flies by. We have accomplished much, and can be proud of our little chapter of INCOSE here in San Diego County. I am thinking about the membership meetings we have organized, the tutorial in June, our attendance and significant contributions to the INCOSE International Symposium in July at Seattle, receiving the Sliver Circle Chapter Award from INCOSE International office for our excellence in chapter operations, our increasingly popular "Geek Night on the Midway" in September, the many thousands of dollars in grants we have awarded to STEM teachers, and of course our annual Fall Mini-Conference in November. Whew! Did we really do all of that?

For such a small chapter, this has been an amazing year. I call us "The Little Chapter that Could", after the children's book, "The Little Engine that Could". In that book, the plucky little steam engine was able to pull the train up the steep hill, just because he had confidence that he could do it (even though others doubted that it would be possible). And so it is with us here in San Diego. But instead of one person with determination, it was an entire team. I want to thank this year's Board of Directors for their tireless efforts and attention to detail. Bravo Zulu!

But that is not all. This year we set the goal to win the Gold Circle Chapter Award for Excellence, after winning the Silver Circle Award for our work last year. This has never been done by such a small chapter, and people thought that we were crazy. We are getting very, very close, and at the time of this writing I really don't know if we will succeed or not. But the point is that we are striving to continuously improve. In a previous life I was the manager of a Quality Assurance department, and I learned an important lesson. Successful people and successful organizations are the ones that never give up trying to improve, and they never just relax and be content with where they are. No matter how modest your situation is right now, as long as you continuously strive to improve, you will eventually achieve excellence and rise above all of those around you. Yes, there may be set-backs along the way. But as long as you keep striving, it is just a matter of time!

I wish all of you a peaceful and reflective holiday season, and may you continue to improve in the coming New Year.

*-Mark Halverson*

## December 9th Holiday Social Event at 57 Degrees Wine Bar

This year, we will hold our annual holiday social at the 57 Degrees wine bar between the hours of 6 and 8:30pm on December 9th, 2015.



The event will have a full appetizer spread, including cheeses, hummus, artichoke tapenade, salami, bread, and olives. Parking is free behind the building (in their two lots) and on the street.

57 Degrees is located just south of Old Town in the Mission Hills area of San Diego at *1735 Hancock Street, 92101*.

Everyone is welcome, even non-members, so feel free to bring a friend who may be interested in INCOSE.

## Other Upcoming Events

**Membership meetings are open to all.** They are held at Giovanni's Restaurant in Kearny Mesa (9353 Clairemont Mesa Blvd, 92123) from 6:00-7:00pm, with an optional buffet between 5:00 and 6:00 ($5 for members, $10 for non-members). Reminder emails shall be sent.

➤ **Jan 20th** – "Incremental Commitment Spiral Model as Applied to Systems of Systems (SoS)." Dr. Jo Ann is a research associate professor at the University of Southern California Center for Systems and Software Engineering, conducting research in the areas of SoSE, systems engineering, and software engineering.

➤ **Feb 17th** – "Evolving Systems Engineering Design from Single Function Products to Systems-of-Systems and Service Based Capabilities." This presentation will be made by Dr. David Jacobs of Viasat.

## Also In The Works…

**Big Data Tutorial** – This one-day seminar will introduce the concept of Big Data systems and will explore these systems' characteristics of importance to the systems engineer.

"Big Data" is a term to describe collections of data that are so large that traditional processing solutions do not work well. Special design and implementation techniques are needed to allow engineers to extract value from these data sets. This technology is rapidly evolving and is one all engineers should be aware of. Updates will be sent via email.

## INCOSE San Diego STEM Grant Process Funds all Requests!

**Success!** Due to the incredible fundraising dedication of our INCOSE San Diego membership, and the generosity of our sponsors including Care Fusion, Cox Communications, Cubic Corporation, International Test and Evaluation Association, and SAIC, we were able to completely fund all ten (10) of the STEM proposals from local schools for a total of $10,477. These grants were awarded to teachers teaching grades 4th through high school. Congratulations to everyone!

The awards ranged from $900 to $1100 apiece, and funded projects such as robots, remotely-piloted underwater vehicles, microscopes, invention kits, and more. The awards this year went to teachers at 4 elementary schools, 5 middle schools, and 1 high school. The schools were evenly distributed across north and central San Diego County. INCOSE SD is honored to be able to support these excellent San Diego STEM teachers and schools.

## Upcoming Survey - What Would You Like to See?

You will soon receive a survey from INCOSE San Diego as to what you would like to see in our chapter. Please don't hesitate to make suggestions on how we can improve our chapter, and how we can continue to promote the discipline of systems engineering throughout the community.

## Local INCOSE San Diego Elections

It's that time of the year. December will also include our yearly elections to the INCOSE San Diego board of directors. Your ballot will arrive via email, making it convenient for everyone to vote. Please look for it!

## Geek Night on the USS Midway Museum

Just last September, the San Diego Chapter of INCOSE hosted our 4th USS Midway event. This event was hosted in

conjunction with the San Diego Section of the American Society for Quality (ASQ) and the International Test and Evaluation Association (ITEA).

## 2016 Western Regional Conference

Loyola Marymount University
April 9 and 10, 2016

The groundwork continues, as presentations are coming in, exhibitors and sponsors are signing up, and a growing cadre of volunteers is pulling together to make this, the first regional conference, a success for the systems engineering profession. The team, members from five chapters (Central Arizona, Southern Arizona, San Francisco Bay Area, San Diego and Los Angeles) and the INCOSE student division are hosting this two-day conference to explore Research and Advancements in Systems Engineering Methods for the 21st Century. The conference is open to all who are interested in systems engineering. We encourage those who think of systems engineering as applying only to big Aerospace and DoD environments to come and see that it is applicable over a much wider range of activities and industries.

The conference will include students of systems engineering. There will be sessions addressing career paths and opportunities in systems engineering. We also are expecting students from colleges in our five areas to offer presentations of their work.

This conference will be addressing several topical areas:

- Autonomous Resiliency Research and Applications
- Systems Architecting and Tradespace Analysis
- Human-Systems Engineering
- Value-based, lean, agile systems engineering
- Modeling
- Complex Systems
- Big Data Analytics

Across the spectrum of systems engineering applications including:

- Aerospace
- Critical Systems
- Energy
- Health
- Safety Security
- Space

Additional information regarding location, hotels, and registration will be available on the RMC16 website http://www.rmc16.net.

## Fall Mini-Conference

The Fall Mini-Conference was held on November 7, 2015 and included 13 presentations by 11 different presenters. Their presentations, where available, will be posted soon on the INCOSE San Diego website. Thanks to all for attending.

## New Members

INCOSE San Diego is pleased to announce the addition of five new members to our chapter since Sept. Please welcome the following individuals (their bios are forthcoming):

- Brandon Altman
- Suyash Jain
- Rajiv Khatri
- Elizabeth Loughran
- Jeffrey Wagner

We hope to meet you all at one of the many upcoming INCOSE events!

## INCOSE San Diego Contacts

**Questions or suggestions?** Please contact us as needed:

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# Call for Papers!
## Regional Mini-Conference 2016

**April 9 – 10, 2016
Loyola Marymount University
Los Angeles, California**

*Research and Advancements in
Systems Engineering Methods for the 21st Century*

### Theme

- Autonomous Resiliency Research and Applications
- Decision Making in Systems Engineering
- Systems Architecting and Trade Space Analysis
- Human-Systems Engineering
- Role of Social Media in Systems Engineering
- Cybersecurity Systems Engineering/Cyber-Physical Systems
- Value-based, lean, agile systems engineering
- Valuing Flexibility
- Model-Based Systems Engineering Methodologies/Implementations/Processes
- Application of MBSE Across the Spectrum of Systems Engineering Applications
- Complex Systems
- Big Data Analytics/Role of Analytics in Systems Engineering

Across the spectrum of systems engineering applications including: Aerospace, Critical Systems, Energy, Health, Safety, Security, and Space

### Keynote

The Technical Director the University of Southern California's Systems Architecting and Engineering Program, Dr. Azad Madni, will be the Keynote Speaker for RMC16.

### Interested? Submit an Abstract

Interested authors are invited to submit an abstract of 2 – 5 pages in length. Abstracts from industry, government, independent practitioners of systems engineering, and academia (professors and students) are welcome and encouraged. Information on the format and submittal of abstracts is available on the conference website: http://www.rmc16.net.
Abstracts will be reviewed by the Conference Technical Committee. Accepted abstracts will be published on the website and presented at the conference.

### *Updated* Schedule

Abstracts are due by **December 11, 2015**. Acceptances will be sent **February 1, 2016**. Final presentations are due **March 15, 2016**.

### General Information

Additional information regarding location, hotels, and registration is available on the conference website: http://www.rmc16.net.
Regional Mini-Conference 2016 is a collaboration of the Los Angeles, San Francisco, San Diego, and Central and Southern Arizona INCOSE chapters and the INCOSE Student Divisions.
For questions about submission of papers and presentations contact Tony Magorno at incoselarmctonym@gmail.com. For questions about general conference issues contact Terry Rector terry.e.rector@aero.org or Dick Emerson, remerson9@gmail.com.

# INCOSE's Student Division and the Central Arizona, Southern Arizona, Los Angeles, San Diego, and San Francisco Chapters

**Return Address:**

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**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.



# Call for Papers!
The first regional conference for systems engineers throughout the great southwest, your forum to advance the science of systems engineering