



Highlights from Chapter Meetings

Like so many previous monthly meetings October and November proved to be successful, with a good turnout of members and guests alike. The topics were intriguing and the speakers engaging, so the participation during the presentations was outstanding!

At the **October Chapter Meeting** member Jeff Bryson shared a presentation on "Prescriptive Requirements Analysis". Jeff baited us with the question "All engineers are experts with requirements analysis and management, right? So why is it that of the DoD projects that fail, over 70% of them are assessed to be the result of poor requirements analysis at the outset of the project or poor requirements management through the design cycle (requirements creep)?"

Through his presentation we explored an approach he calls "Prescriptive Requirements Analysis", which he has been using with success for a number of years.

To get us started Jeff described prescriptive as the enforcement of rules governing how a language is to be used. And in this context that means a prescriptive process that includes clear metrics and error checking.

Along with sharing some incredible nature photos taken during his travels, Jeff stimulated some lively discussion on the topic. Visit the chapter web site to view his [presentation and the photos](#).

Dr. Sam Harbaugh was our guest speaker at the **November Chapter Meeting**, sharing with us an introduction to "The Tranquility Trek Lunar Robotic Mission". Dr. Harbaugh shared details on the requirements for successfully completing the mission, which include safely landing a robot on the moon, trekking 500 meters over the lunar surface, and transmitting data and images back to earth. The first

team to complete the mission objectives will win the \$20 million Google Lunar X PRIZE. Dr. Harbaugh is leading the systems engineering for Carnegie Mellon's rover portion of the Astrobotics team, which is one of fourteen teams now competing for Lunar X PRIZE. He discussed some of the team's design concepts, challenges they've faced, and showed some video clips demonstrating each.

The audience in attendance found the presentation very interesting, including the portion where Dr Harbaugh shared how the team is planning to off-set some of their costs. As it turns out the Astrobotics team's lander will carry a payload containing human cremated remains. That's right! For a fee, a small portion of the "cremains" of a loved one can be set to rest on the surface of the moon.

We also learned that UCF had recently entered the competition with the team Omega Envoy. We wish them luck!

To learn more about the [Tranquility Trek Lunar Robotic Mission](#), look for Dr. Harbaugh's presentation on the chapter web site.

Other Events of Interest

CPAG Breakfast Defense Forum

January 8, 2009

Radisson University Hotel
Orlando, FL

More info to come at <http://www.cflquad-a.com/>

UPCOMING CHAPTER EVENTS

December 18: Chapter Meeting
Holiday Celebration, no speaker

January 15: Chapter Meeting
Sandy Friedenthal, Lockheed Martin
SysML Overview and Application Results and Book Signing

January 16: Tutorial—SysML

February 19: Chapter Meeting
Dr Rob Cloutier, Stevens Institute of Technology
Patterns as Applied to Design and Architecture

For more details on upcoming events visit the [INCOSE Orlando](#) web site.

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INCOSE Region V Spring '09 Conference

April 2-4, 2009

Virginia Modeling, Analysis and Simulation Center (VMASC) - West Facility
1030 University Blvd., Suffolk, VA
(on the Old Dominion University Campus)

This year, our Orlando Chapter has elected to innovatively participate in this conference by offering conference attendance to our members remotely from our local community (location is still being worked out). This has not been done before within INCOSE, and we are excited to be leading this alternative delivery option. The Southern Maryland and Washington Metropolitan Area chapters are hosting the conference.

Anticipated costs for INCOSE members will be a small fee of \$125.

APPEAL TO OUR ORLANDO MEMBERS (Including Student members): The Conference is requesting each participating chapter have at least 2 paper authors/presenters participate in the conference. This is an excellent way to push technological discussions and get your research ideas vetted within our SE community. The deadline for a short abstract or partially complete paper is **December 22nd (Next Monday)**. Please consider participating.

If you're considering submitting an abstract, please contact Tom Herald at (407) 242-1470. The Conference website is: <http://www.incose-spring09.org/>

Member News

Current membership in the Orlando Chapter stands at 90 as of month-end November. If you haven't renewed your membership yet or you're interested in becoming a member, visit the [INCOSE Membership page](#) or contact [Becky Matz](#).

New Members (October)

Susan Batholomew, Cubic Simulation Systems Division

Iveto Denis, General Dynamics C4 Systems

Alan Helmbrecht, General Dynamics C4 Systems

Terry Stafford, SAIC

Daniel Theodoseau, General Dynamics

New Members (November)

Sidney Craig, Northrop Grumman

Sherry Dubin, SAIC

Sam Tyson, SAIC

Membership and the Power of Influence

Did you know... Any company that has six or more employees who are members of the chapter gets a seat on the board. That means your company can participate in decision-making and help set direction for the chapter.

Happy Holidays!

- From the INCOSE Orlando
Board Members

Institute for Advanced Systems Engineering (IASE) and SysML Tutorial

INCOSE Orlando is working with the University of Central Florida and IBM on the Institute for Advanced Systems Engineering (IASE). IBM has furnished all requested Systems Engineering software tools for the IASE. Already in use for an SE course, the systems engineering lab, currently located in the Engineering II building on the UCF campus, has full IBM support and a plan to use space in either Partnership II, co-located with other UCF activities, or in Partnership III building when construction is complete.

A Model-Based Systems Engineering (MBSE) tutorial is scheduled for January 2009. This tutorial provides an introduction to how SysML can address systems engineering needs. It includes background and motivation, an overview of the SysML diagram types and language concepts, and selected sample problems to demonstrate how the language can be used as part of a typical SE process. Additional information including this tutorial, vendor information, and papers, can be found on the DMG

SysML website at <http://www.omg.sysml.org/>.

The DMG Systems Modeling Language (DMG SysML™) is a general-purpose graphical modeling language for specifying, analyzing, designing, and verifying complex systems that may include hardware, software, information, personnel, procedures, and facilities. In particular, it provides graphical representations with a semantic foundation for modeling system requirements, behavior, structure, and parametric equations that can integrate with a broad range of engineering analysis. SysML represents a subset of UML 2.0 with extensions needed to satisfy the requirements of the UML™ for Systems Engineering RFP. This tutorial and others will assist members in learning and putting to use the IASE.

Please contact [Ed Smith](#) so he can get a head count for the tutorial and begin to coordinate members' use of this facility.

CSEP Prep Courses

Are you interested in pursuing the CSEP designation, but a little nervous about taking the exam?

Honourcode, Inc. is offering [CSEP Preparation courses](#) in several locations across the US, including Orlando, FL.

Eric Honour, Honourcode President, has many ties to INCOSE including being a former INCOSE President and Director of the INCOSE Systems Engineering Center of Excellence.

Get Connected

Join the [Systems Engineers group](#) on LinkedIn. Check out the group home page to get connected with other Systems Engineers and start discussing topics.



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**2009 Board Members
to be announced at the
December Holiday Celebration.**