



SE REVIEW



December 2008

Volume 8, Number 9



President's Perspective

It is the season of Lights. I planned to give a Systems Engineering's perspective on the current state of household lights. I wanted to consider the old standard incandescent, the new push toward Compact Florescent lights (CFL), and the even newer LED lights. After doing some research, it became clear, I could use some help. The requirements I want to consider are: the lights must fit our light sockets, they must give off enough light for the tasks performed near them, the light color should be pleasing, they should be easy to buy, replace, dispose of, and lastly the total ownership cost should be reasonable. I would like some help considering the design options against the requirements. Please contact me at John.Walker@INCOSE-SoMD.org with which design you would like to address, and we can publish together and help our fellow Systems Engineers that do not have the time to do their own analysis.

I also wanted to leave you with news of the Chapter. The Board of Directors has voted to make the Chapter President a two-year position. We did this to align more closely with International, add more stability to the chapter, and reduce the overhead with the turnover of the position. So Steve McKeown will be our President, and I'll be Past President for two years starting in January.

Also in January, we have two other significant events: St. Mary's County Science and Engineering Fair on 31 January and the INCOSE International Workshop from 31 January to 3 February at the Westin San Francisco Airport Hotel. We will be giving our Chapter INCOSE award at the St. Mary's County Science and Engineering Fair. The snow date is 8 February, so please "Let it Snow!" We will need judges, four or more, to give out the award. With the schedule overlap with the International workshop, we may not be able to count on the usual volunteers so please consider joining this community outreach opportunity. More information is on our website www.incose-somd.org, and the fair website is www.sm-sef.org.

INCOSE's International Workshop is the event of the year for systems engineers to contribute to the state of the art. Attendees spend four days working alongside fellow systems engineers who are there to make a difference. Systems Engineers at all levels and from all backgrounds are encouraged to engage in working sessions and contribute their knowledge and experience to take the discipline forward. Please come if you can. See www.incose.org/iw2009 for more information. I will be attending, and I also know that our Treasurer Karl Geist is expecting to go. I will be working with the Member Board and helping to prepare the materials to establish an INCOSE award at the Intel International Science and Engineering Fair. I am not sure of the totality of Karl's plans, but I am sure he will be working with the Certified Systems Engineer Professional (CSEP) Working Group. If you can go, let me know so we can meet up and compare notes.

It has been great being your President this last year, and I wish everyone a great and safe holiday season.

Respectfully,
John Walker
President, Southern Maryland Chapter
president@INCOSE-SoMD.org

Next Board Meeting
8 January 2009
1630
Booz Allen
Expedition Bldg

Next Chapter Meeting
22 January 2009
1130 – 1300
O' Club
(Tentative)

Inside this Issue:

President's Perspective1
INCOSE News 2
Chapter Highlights... 3
Upcoming Events4
SoMD Current Board of Directors 9

INCOSE News

INCOSE 2008 Election Results Announced

INCOSE is pleased to announce the results of the recent elections and to congratulate the newly elected officers and Member Board representatives. The results are:

Board of Directors

Secretary: Bob Kenley

Director for Commercial Outreach: Henk van der Linden

Member Board

Region V: Jim Armstrong

INCOSE International Workshop (IW) 2009 Reminder

This year the INCOSE International Workshop 2009 will take place in San Francisco, California, from 31 January to 03 February 2009, at the Westin San Francisco Airport Hotel. The website with all the information you need is at <http://www.incose.org/iw2009/>. Registration is open.

Renew Your Membership

Don't forget to renew your membership. Your annual membership now expires 12 months after your enrollment anniversary. If you want to know what your enrollment date is and when your current membership will expire, just view your member profile <https://www.incose.org/membersOnly/memberInfo/updateMemberInfo.cfm>. Should you have problems or questions, e-mail Central Office (<mailto:info@incose.org>).

Update your membership profile

Did you know that you have the ability to reset your own password, change your address, phone number and employer, and even change the e-mail addresses you want your incose.org e-mails to go to? Did you know that you can also update your biography and even your picture? To keep your membership information up to date, just go to www.incose.org. On the left side, select the option to [View / Update Member Record](#).

Schedule of *INSIGHT* Deadlines

The following is a list of upcoming INCOSE *INSIGHT* deadlines:

SUBMISSION DATE	PUBLICATION DATE	THEME	THEME EDITOR
15 February 2009	April 2009	Cognition: Pursuing the Next Level in System Performance	Steve Deal
15 May 2009	July 2009	The Interplay of Architecture, Systems Engineering, and Security	Rick Dove
13 August 2009*	October 2009	East Meets West - The Human Dimension to Systems Engineering	Leo Tin Boom (TBR)
15 October 2009	December 2009	Model-Based Systems Engineering: The New Paradigm	Rob Cloutier

*early submission date

Chapter Highlights

Outreach: Feature Story!

Holiday Party and Membership Drive a Huge Success

Thanks to all that turned out at Precise Systems in December to meet with fellow INCOSE members and the Board of Directors! We had a nice mix of our seasoned veterans that have supported the Chapter throughout the years, along with a few “come back kids” and potential new members joining us to hear more about what we did accomplish in 2008 and where we are heading as a Chapter in the New Year. Our 2008 Year at a Glance includes a number of key activities, including our involvement with the St. Mary’s County Science Fair, the INCOSE Certification Process (partnered with DAU), contributing to sponsoring the local Robotics program, and co-sponsoring the AUVSI UAV competition at St. Inigoes. Additionally, our luncheon speaker program was successful with some great topics throughout the year including INCOSE’s History, Risk Integration, Advancements in Modeling and Simulation, Systems Engineering Trends, Technical Performance Measures, The Systems Engineering Development & Implementation Center (SEDIC), and the Probability of Program Success (PoPS).

We also have members that actively participate with INCOSE International including attendance and providing a speaker at INCOSE International in the Netherlands this previous year (thanks John Walker!) and a number of their working groups. We are very excited about the upcoming year, and there are numerous ways to get involved and help set the direction for the Chapter in the local systems engineering community. One of our largest efforts will be participation in the Mid-Atlantic Regional Conference (MARC) in April 2009 in Suffolk, VA, and Karl Geist is the chairman for this year’s event. Details will become available at: <http://www.incose-spring09.org/> as we get closer, and the Call for Papers is currently underway.

For those considering membership with INCOSE, please click [HERE](#) and you will be taken to the membership form to begin the process. Again, thanks to all that made it out for a very nice evening.

Happy Holidays to All!

The INCOSE Southern MD Board of Directors!

Member Profile

Please welcome our new members:

Anne Mekus joined on 14 November.

Michael Bourque joined on 17 November. He is the TacMobile UAS IPT Lead at Solute Consulting. His e-mail is bourque.mike@solute.us, and phone number is (310) 866-0111.

Michele Gittings joined on 1 December. She works at DCS Corp. Her e-mail is mgittings@dcscorp.com, and phone number is (240) 237-4753.

James Morgan joined on 5 December. He is an IPT Lead at NAVAIR. His e-mail is James.Morgan2@navy.mil, and phone number is (301) 757-7982.

Kyaw Khant joined on 12 December. He is an Aircraft Mechanic at Dyncorp International. His e-mail is joe72@att.net, and phone number is (240) 431-3332.

Armin Heravi joined on 12 December. He is an Associate at Booz Allen Hamilton. His e-mail is heravi_armin@bah.com, and phone number is (301) 863-3474.

Member Accolades

Thanks for another successful year to our outgoing Chapter Officers **John Walker, Steve McKeown, Karl Geist, and Judy Walker**, along with the other Board of Directors **Andrew Pollard, Dale Raney, Pete Williams, Mary Redshaw, and Ted Warren**. Job well done!

Member Contributions & Support Needed

We are in desperate need of more help, more involvement, more members, and more leadership from our current members to maintain our ambitious schedule of events. Also please send news on your projects at work, on your personal or professional achievements, any notable upcoming events the membership should know about, etc. Send electronic pictures, too! We continue to request that each of the Chapter members provide us with a brief bio, so everyone will get to know you a little better. This will also make it easier to network with other Chapter members. Please include items such as where you went to school and any degrees, current and past positions, INCOSE activities, and any other information you would like to share. Our newsletter can use your articles and your support. Please send all contributions to Karl Geist at kgeist@md.metrocast.net, Dawn Jaeger at Dawn.Jaeger@navy.mil, or Steve McKeown at mckeown_steve@bah.com. If you have any questions, please send an e-mail or call Dawn at 301-757-0907, or Steve at 301-862-7033. So, please consider volunteering and being part of the exciting opportunities in Systems Engineering. As current members, the Chapter Board of Directors (BOD) welcomes your feedback to the chapter's plans. Address these comments to any of the Chapter's BOD members found at the end of this newsletter. Thank you!

Upcoming Events

Southern Maryland SPIN Chapter Meeting

Hosted by SoMD SPIN Chapter

When: 7 January 2009, 1700-1900

Where: Frank Knox Building, Room 120

Theme: Stealth CMMI© - Process Improvement by Managing Work Products

Speaker: Ron Abler

Info: <http://www.somdspin.org/>

POC: Liz Burnett at 301-862-7398, Liz.Burnett@ManTech.com

Venue: Food and Refreshments

Cost: Free

Certified Systems Engineering Professional (CSEP) Preparation

Presented by Honourcode, Inc.

When: 20-21 January 2009

Where: Beltsville, Maryland

Info: <http://www.hcode.com/crsinfo-csep.htm>

Cost: \$990.00

POC: BetterSE@hcode.com, (850) 479-1985

Description: The INCOSE Certified Systems Engineering Professional (CSEP) rating is a useful and coveted milestone in the career of a systems engineer, demonstrating knowledge, education and experience that is of high value to systems organizations. The certification requires passing an extensive examination based on the INCOSE Systems Engineering Handbook v3.1. This two-day course provides you with the detailed knowledge and practice that you need to pass the CSEP examination.

This course walks through the CSEP requirements and the INCOSE Handbook to cover all topics that might be on the CSEP exam. Interactive work, study plans, and sample examination questions help you to prepare effectively for the exam. Participants leave the course with solid knowledge, a hard copy of the INCOSE Handbook, study plans, and a sample examination.

Upcoming Events (cont.)

Information on
Working Groups
can be found at the
INCOSE web site:

www.incose.org
Advancing the Practice
- Technical Activities

INCOSE Webinar

Hosted by INCOSE

When: 21 January 2009 at 1100
Where: Internet (by e-mail invitation)
Theme: How to find information at INCOSE
Info: www.incose.org/practice/webinars.aspx
Speaker: Christian Tulodieski, INCOSE Director for Communications
POCs: Art Pyster, Chairman of the Corporate Advisory Board
Cost: Free for members and CAB company employees

Project Management Institute (PMI) Luncheon

Hosted by PMI, Southern Maryland Chapter

When: 21 January at 1130 to 1300
Where: NAS Patuxent River Officer's Club
Theme: Communications in a High Performance Environment
Info: More details forthcoming
Speaker: Mr. Vincent Mankowski
RSVP: TBD
Cost: TBD

Southern Maryland Chapter Meeting

Hosted by INCOSE SoMD Chapter in Patuxent River, Maryland

When: 22 January 2009, 1130-1300
Where: Cedar Point Officer's Club
Theme: St. Mary's County Science and Engineering Fair and Induction of New Chapter Officers and Board of Directors
Info: www.incose-somd.org
Speaker: John Walker
POCs: Dawn Jaeger at 301-757-0907, Dawn.Jaeger@navy.mil or Judy Walker at 301-342-2164, Judy.Walker@INCOSE-SoMD.org
Venue: Buffet
Cost: \$5.00 for SoMD INCOSE Chapter members, \$8.00 for Non-members
Description: We will be discussing the Chapter's role in the St. Mary's County Science and Engineering Fair. The 2009 Chapter Officers and Board of Directors will also be inducted.

2009 INCOSE International Workshop

When: 31 January – 3 February 2009
Where: San Francisco, California
Theme: Various Committees, Working Groups, and Certification Beta Test
Info: <http://www.incose.org/>
POC: PCMI, (858) 565-9921
Description: The workshop features many committee and working group meetings such as the Certification Working Group, Handbook Working Group, INCOSE Fellows, the Corporate Advisory Board, Certification Advisory Group, Certification Beta Test, etc.

INCOSE Webinar

Hosted by INCOSE

When: 18 February 2009 at 1100
Where: Internet (by e-mail invitation)
Theme: How to find information at INCOSE
Info: www.incose.org/practice/webinars.aspx
Speaker: Christian Tulodieski, INCOSE Director for Communications
POCs: Art Pyster, Chairman of the Corporate Advisory Board
Cost: Free for members and CAB company employees

Upcoming Events (cont.)

Second International Conference on Model-Based SE (MBSE'09)

Hosted by the Israeli Chapter of INCOSE

When: 2-5 March 2009

Where: Herzeliya and Haifa, Israel

Info: <http://www.mbse-org.org>

POC: Prof. [Dov Dori](mailto:Dov.Dori@ie.technion.ac.il), Technion, Israel dori@ie.technion.ac.il

Description: The Conference is a premier forum for the elicitation and exchange of ideas on issues and problems regarding systems engineering and its relation to the development, evolution, adoption, evaluation, and dissemination of languages, methodologies, and approaches for conceptual models of complex systems. The objective is to improve practices of Model-Based Systems Engineering by endowing this evolving discipline with missing theoretical and methodological underpinnings and improving the communication of complex systems' function, structure, and behavior among stakeholders. In addition to research and papers, the conference will feature invited speakers, tutorials, and an industrial exhibition.

Architecting with DOD Architecture Framework (DODAF)

Presented by Honourcode, Inc.

When: 31 March - 1 April 2009

Where: Laurel, Maryland

Info: <http://www.hcode.com/crsinfo-archdodaf.htm>

Cost: \$990.00

POC: BetterSE@hcode.com, (850) 479-1985

Description: Today's systems do not stand alone; each system fits within an increasingly complex system-of-systems, a network of interconnection that virtually guarantees surprise behavior. Systems science recognizes this type of interconnectivity as one essence of complexity. It requires new tools, new methods, and new paradigms for effective system design. The DODAF provides an underlying structure to work with complexity.

This course provides knowledge and exercises at a practical level in the use of the DODAF. You will learn about architecting processes, methods and thought patterns. You will practice architecting by creating DODAF representations of a familiar, complex system-of-systems. By the end of this course, you will be able to use DODAF effectively in your work.

Certified Systems Engineering Professional (CSEP) Preparation

Presented by Honourcode, Inc.

When: 2-3 April 2009

Where: Laurel, Maryland

Info: <http://www.hcode.com/crsinfo-csep.htm>

Cost: \$990.00

POC: BetterSE@hcode.com, (850) 479-1985

Description: The INCOSE Certified Systems Engineering Professional (CSEP) rating is a useful and coveted milestone in the career of a systems engineer, demonstrating knowledge, education and experience that is of high value to systems organizations. The certification requires passing an extensive examination based on the INCOSE Systems Engineering Handbook v3.1. This two-day course provides you with the detailed knowledge and practice that you need to pass the CSEP examination.

This course walks through the CSEP requirements and the INCOSE Handbook to cover all topics that might be on the CSEP exam. Interactive work, study plans, and sample examination questions help you to prepare effectively for the exam. Participants leave the course with solid knowledge, a hard copy of the INCOSE Handbook, study plans, and a sample examination.

Upcoming Events (cont.)

Region V INCOSE Spring 09 Conference

Hosted by INCOSE Region V Chapters

When: 2-4 April 2009

Where: Virginia Modeling Analysis and Simulation Center, Suffolk, VA

Theme: Systems Engineering – Affordable Success

Info: <http://www.incose-spring09.org>

POC: Conference Chair, Karl C. Geist at kgeist@md.metrocast.net or 301-475-5646

Description: The conference will focus on the means and tools to lead and create processes or organizations that develop affordable systems. It is known that systems complexity has dramatically increased over the last several decades. It is therefore even more important now than in the past to develop leaders and processes to more cost effectively track development costs, calculate complexity, and leverage known solutions and techniques.

Fundamentals of Systems Engineering

Presented by Honourcode, Inc.

When: 6-7 April 2009

Where: Laurel, Maryland

Info: <http://www.hcode.com/crsinfo-fse.htm>

Cost: \$990.00

POC: BetterSE@hcode.com, (850) 479-1985

Description: Today's complex systems present difficult challenges to develop. From military systems to aircraft to environmental and electronic control systems, development teams must face the challenges with an arsenal of proven methods. Individual systems are more complex, and systems operate in much closer relationship, requiring a system-of-systems approach to the overall design.

This workshop presents the fundamentals of a systems engineering approach to solving complex problems. It covers the underlying attitudes as well as the process definitions that make up systems engineering. The model presented is a research-proven combination of the best existing standards.

7th Annual Conference on Systems Engineering Research

Hosted by Loughborough University, University of Southern California, and Stevens Institute of Technology

When: 20-22 April 2009

Where: Loughborough University, Loughborough, England, UK

Info: <http://cser.lboro.ac.uk/>

POC: r.s.kalawsky@lboro.ac.uk

Description: The primary conference objective is to provide practitioners and researchers in academia, industry, and government with a common platform to present, discuss and influence Systems Engineering research with the intent to enhance Systems Engineering practice and education.

21st Annual Systems & Software Technology Conference (SSTC 2009)

Sponsored by United States Army, United States Marine Corps, United States Navy, United States Air Force, and Defense Information Systems Agency (DISA)

When: 20-23 April 2009

Where: Salt Lake City, Utah

Theme: Technology: Advancing Precision

Info: www.sstc-online.org

Cost: \$895 – Through 22 March 2009

\$995 – After 22 March 2009

Discounts Available:

\$100 – Military/Government (must have GS Rating or Equivalent)

\$100 – Paper Reviewer

Speaker Rate: \$395/full conference

POC: sstc-info@ext.usu.edu or (435) 797-0423

Description: The SSTC conference has elaborated on the concept behind the theme: If we look back over the past couple of years, one can conclude we haven't seen huge leaps in new technologies. Programming languages have had some stability. The probability of a new computer language being introduced, similar to the flurry around Ada's initial release, is somewhat low. What we are seeing, as far

Upcoming Events (cont.)

as recent advancements, are little tweaks to proven technologies which are having the effect of paying large dividends in the areas of performance, cost, schedule, time to delivery, communications, command and control, and weapons targeting, just to name a few. SSTC 2009 will focus on exploring how we, as a community, can affect Systems and Software by fine tuning technology, thus advancing the precision of technology.

Save the Dates! Conference registration opens 5 January 2009. Mark your calendar now and plan to join us for excellent, quality presentations and networking with colleagues from military/government, industry and academia.

Systems of Systems

Presented by Honourcode, Inc.

When: 9-11 June 2009

Where: Washington, DC

Info: <http://www.hcode.com/crsinfo-sos.htm>

Cost: \$1,390.00

POC: BetterSE@hcode.com, (850) 479-1985

Description: Today's environments are dominated by complex systems of systems. As a result, systems engineers now have the responsibility to create systems of unprecedented scope and complexity. These objectives are not the only challenge. The development environment for a system of systems is typically characterized by its own unique challenges, such as an extended life cycle, requirements to use legacy systems as components, and ongoing re-architecting throughout the lifecycle of the system and its component systems. Success under these conditions requires developing a sound design, managing complexity, maintaining the integrity of that design, and supporting shifting operational priorities over significant time spans while avoiding the lurking potential of chaotic conditions.

To meet these challenges, this course presents detailed, useful techniques to develop effective systems of systems and to manage the engineering activities associated with them.

2009 INCOSE International Symposium

The 19th International Symposium -- Hosted by Region VI Chapters of Australia, Beijing, Japan, Korea, Singapore, and Taiwan

When: 19-23 July 2009

Where: Suntec International Convention and Exhibition Centre, Singapore

Theme: East Meets West: The Human Dimension to Systems Engineering

Info: <http://www.incose.org/symp2009/>

POC: ASK International Conference, is2009@askintlconference.com

Description: The theme for INCOSE 2009 highlights the dramatic expansion in the scope of contemporary Systems Engineering where the human cognitive dimension is becoming an integral part in the Systems Engineering processes. Future systems, where the machines are designed around the man, will benefit from Systems Engineering best practices and processes. Systems Engineering methodologies have been successfully applied to designing large-scale complex engineering projects that are multi-disciplinary in nature.



SoMD BOARD OF DIRECTORS

President	John Walker (301) 342-2348 john.walker@navy.mil
Vice-President/President-Elect	Steve McKeown (301) 862-7033 mckeown_steve@bah.com
Treasurer	Karl Geist (301) 475-5646 kgeist@md.metrocast.net
Secretary	Judy Walker (301) 342-2164 judy.walker@navy.mil
Past President	Mary Redshaw (240) 895-7354 mary.redshaw@dau.mil
Director	Andrew Pollard (301) 757-7646 andrew.m.pollard@navy.mil
Director	Dale Raney (301) 342-5420 dale.raney@navy.mil
Director	Ted Warren (301) 757-1825 Heath.Warren@navy.mil
Director	Pete Williams (301) 757-8440 pwilliams@goprecise.com
Membership Chair/Newsletter Editor.....	Dawn Jaeger (301) 757-0907 Dawn.Jaeger@navy.mil
Web Site	www.incose-somd.org

**SoMD
Board of
Directors!**