



SE REVIEW



January 2009

Volume 9, Number 1



Next Board Meeting
10 February 2009
1630
Booz Allen
Hamilton
Expedition Bldg

Next Chapter Meetings
24 February 2009
1800
Do Dah Deli,
Leonardtown, MD
(INCOSE Members Only)

26 February 2009
1130-1300
Pax River O'Club

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President's Perspective

Colleagues,

We have closed out our year by successfully submitting our 2008 Awards Package (thanks Dawn Jaeger and all of our active Chapter members for their time and energy to make this happen!). It is time for the 2009 Board of Directors to launch into another exciting year for the INCOSE Southern MD Chapter. We have a clear blueprint to follow for our endeavors in continuing with some of our key initiatives. The local Science Fair is one example, and INCOSE volunteers will judge and give specific systems engineering awards for junior and senior competitors. John Walker is the POC for those that would like to volunteer this year (judging will take place 31 January), and this is a great way to get involved with the community. The AUVSI Student UAS Competition, 16-20 June 2009, is another example where Chapter members can volunteer time and energy to help with this event at St. Inigoes. Our luncheon speaker program continues to get very engaging speakers with current and relevant topics, and we would like members to reach out to Dale Raney with potential speakers or topics if you feel there are areas that we are missing.

We also have some new endeavors for this year where we will need our membership to bring the best to bear for INCOSE to succeed. A Mid-Atlantic Regional Conference (MARC), "Systems Engineering – Affordable Success", is well underway in its planning stages, and we encourage attendance, participation at the speaker and tutorial levels, and industry partners sponsorship to make this event in Suffolk, VA on 2-5 April a success. Details are available at: <http://www.incose-spring09.org/>, and further highlights for the event are provided later in this newsletter. Our local chapter has been very much engaged on the international level in helping with the Systems Engineering Handbook that INCOSE has authored. We have key members participating in the entire Certified Systems Engineering Professional (CSEP) process, and we will be actively promoting this certification for our members as a way to comprehensively hone local systems engineering skills.

As a Chapter, we are always looking at new ways for INCOSE to provide value back to its members. Tutorials on key topics, information exchanges, and networking events will transpire throughout the year, and it is our goal to be comprehensive in nature—covering the full life cycle of systems engineering as a discipline. Please feel free to reach out to any of our Board members with your innovative ideas for the Chapter. There is always room for others to lend a hand in the good work that takes place within our volunteer organization.

The President's Perspective is a regular feature in this newsletter, and we will continue in the tradition of using this to provide timely information on System Engineering Topics and also to provide ideas on how we can meet our INCOSE mission to advance the state of the art and practice of systems engineering. On behalf of the new Board of Director's, we look forward to your continued support and engagement with INCOSE Southern MD.

Respectfully,

Steve McKeown
President, Southern Maryland Chapter
president@INCOSE-SoMD.org

INCOSE News

INCOSE International Workshop (IW) 2009

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. Throughout most of the year, working groups perform and collaborate through the internet, INCOSE Connect and via telephone. The IW is the main event for the Working Groups (WG) to physically meet and collaborate face to face. INCOSE is one of the few organizations of its kind that has working groups making products that are available and beneficial for its members at large. All working group meetings during the IW are open for anyone who is an INCOSE member. Please join us at the working group(s) of your preference. For an overview of the INCOSE working Groups, please refer to the right-hand column of <http://www.incose.org/practice/techactivities/>

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
3 July 2009	October 2009	East Meets West - The Human Dimension to Systems Engineering	Pearly Chua
15 November 2009	December 2009	Model-Based Systems Engineering: The New Paradigm	Rob Cloutier



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.

Chapter *Highlights*

Outreach: *Feature Story!*

Regional Spring SE Conference

The SoMD Chapter of the International Council on Systems Engineering (INCOSE) is leading a group of 10 INCOSE Chapters in the organization and staging of a regional Systems Engineering conference this spring. The INCOSE Spring 09 Conference will be held April 02 - 04, 2009 at the Virginia Modeling, Analysis and Simulation Center (VMASC) in Suffolk, VA. The conference theme is ***Systems Engineering – Affordable Success***. It focuses 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 to develop leaders and processes to more cost effectively track development costs, calculate complexity, and leverage known solutions and techniques. The conference will include papers, panel discussions, and tutorials at no additional charge. The technical program is still in development, so there is time to become involved. Papers, panel discussions, and tutorials in all areas of systems engineering leadership, green solutions, and complexity, cost, schedule, and performance are still being sought. All types of papers will be considered. Papers must be submitted in English, the official language of the INCOSE Spring 09 Conference. Students are especially encouraged to submit papers. Sponsors are also needed. This is a great opportunity to advertise your company or organization while supporting INCOSE and Systems Engineering. For more information, contact Conference Chair, Karl C. Geist, at kgeist@md.metrocast.net or 301-475-5646 or visit our website at www.incose-spring09.org.

The Ambassador Adds

In today's environment, it is almost as difficult to find the right person to do the job as it for the right person to find you. Systems Engineering skills are both the most marketable traits as well as the most sought after skills in the marketplace. With this thought in mind, the SoMD Chapter is pleased to announce the launch of a new section in the Chapter's newsletter. This section is entitled "**The Ambassador Adds**", where Chapter members can discretely place a synopsis of their resume for distribution throughout the Chapter's contact list to help them find job opportunities. The individual will be given a unique number such as 010709 (date resume submitted) to identify their resume. Then anyone interested in their skills can request the full resume with its contact information. The individual will be given the company's request and can contact the company directly. Thus, the individual will remain anonymous in the process. Additionally, companies of Chapter members can place "Want Adds" in the newsletter to help find that "right" employ. The company will also be given a unique number. Inquiries will be provided the company's contact information and can contact the company at their own discretion. Here is our first resume.

010709: Principal Systems Engineer has twenty years experience as a project manager for commercial and military projects, which involved both hardware and software development utilizing knowledge and background in systems engineering, software engineering, and management. Experience includes requirements management (CORE), development of infrastructure protection methods and systems, training, hardware test and evaluation, process development, software development, and configuration management. Has BS in Engineering Science, MS in Software Engineering, and Secret Clearance. For more information send email to president@incose-somd.org.

Member Profile

Please welcome our new members:

Jennifer Marbourg joined on 23 December. She is a Project Manager at NAVAIR. Her e-mail is jennifer.marbourg@navy.mil, and phone number is (301) 995-6248.

Chapter Highlights (cont.)

Information on
Working Groups
can be found at the
INCOSE web site:
www.incose.org
Advancing the Practice
→ *Technical Activities*

Kathleen Garcia joined on 5 January. She is a Safety Engineer for Naval Ordnance Safety and Security Activity (NOSSA). Her e-mail is kathy.m.garcia@navy.mil, and phone number is (301) 744-6093.

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

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.

Southern Maryland SPIN Chapter Meeting

Hosted by SoMD SPIN Chapter

When: 4 February 2009, 1700-1900

Where: Frank Knox Building, Room 120

Theme: CMMI for Acquisition

Speaker: Dr. Phil Miller

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

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

Venue: Food and Refreshments

Cost: Free

Description: This presentation provides an introduction into the CMMI for Acquisition Supplement for the Introduction to CMMI® V1.2, in general, and a more detailed look at requirements. In this presentation, Dr. Miller will draw upon the SEI's online Blended Learning Course in the presentation. The objective is to show how CMMI for Acquisition is like the familiar CMMI for Development and to focus attention on the ways that the two models are distinct.

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.)

Southern Maryland Chapter Meeting

Hosted by INCOSE SoMD Chapter in Patuxent River, Maryland

When: 24 February 2009, 1800

Where: The Godfather Room at the Do Dah Deli, Breton Marketplace, 25470 Point Lookout Rd., Unit 3, Leonardtown, MD (just south of the St. Mary's County Hospital on Maryland Route 5)

Theme: INCOSE Connect Walk-through

Info: www.incose-somd.org

Speaker: John Walker

POCs: RSVP by February 18th to Steve McKeown, (301) 862-7033 or

Steve.McKeown@INCOSE-SoMD.org

Venue: Sandwiches

Cost: Free for SoMD INCOSE Chapter members

Description: A collaboration workspace for the INCOSE community, Connect supports distributed, asynchronous collaboration for INCOSE's many teams — international leadership bodies, chapter leadership teams, working groups, project teams, and symposia host committees. It is also home to the INCOSE product area and the INCOSE event archive. Join colleagues at this free INCOSE Southern Maryland Chapter **members only** event for a tutorial demonstrating Connect's useful tools.

Southern Maryland Chapter Meeting

Hosted by INCOSE SoMD Chapter in Patuxent River, Maryland

When: 26 February 2009, 1130-1300

Where: Cedar Point Officer's Club

Theme: Human Systems Integration

Info: www.incose-somd.org

Speaker: Jennifer Narkevicius

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

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: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.

Human Systems Integration Symposium (HSIS) 2009

Sponsored by American Society of Naval Engineers and the Human Factors Ergonomic Society

When: 17-19 March 2009

Where: Loews Annapolis Hotel, Annapolis, Maryland

Theme: Human Systems Integration: 2+2=22! Greater than the Sum of its Parts

Info: <http://www.navalengineers.org/Events/HSIS09.html>

Description: Building on the broad successes of HSIS events since 2001, HSIS 2009 is a "must-attend" for anyone who wants to learn more about the value of HSI, how and when to apply HSI concepts, and successful implementations of HSI activities.

Upcoming Events (cont.)

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.

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

Upcoming Events (cont.)

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 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

Upcoming Events (cont.)

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

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