



7th straight year

# SE REVIEW



March 2009

Volume 9, Number 3



### Next Board Meeting

9 April 2009  
1630  
Booz Allen  
Hamilton  
Expedition Bldg

### Next Chapter Meetings

17 March 2009  
1130-1300  
Pax River O'Club

### Inside this Issue:

President's Perspective .....	1
INCOSE News .....	2
Chapter Highlights...	4
Upcoming Events .....	5
SoMD Current Board of Directors .....	10

## President's Perspective

Colleagues,

The Mid-Atlantic Regional Conference (MARC) 2009, **"Systems Engineering – Affordable Success"** is rapidly approaching, and we'd love to see you there! The topics are current and relevant, the venue attractive, and the cost for this caliber of event cannot be beat! For INCOSE members, this is three days of solid programming for \$125 and will be conducted **2 – 4 April 2009**. Our plenary sessions include:

- **Gordon Kranz, OSD, DoD 5000.02 Changes and SE Impacts**
- **Kevin Forsberg, Center for Systems Management**
- **John Snoderly, DAU (Invited)**

The tracks that are being offered include:

- **SE Leadership** - How do cultural differences around the world affect the application of SE? How is information technology / knowledge management enabling or preventing the successful application SE? How has the integration of program management and SE elevated the role of systems engineering? How do you see information engineering affecting systems development?
- **Complexity, Cost, Schedule And Performance** - How do you calculate SE Return on Investment (ROI)? How have the application modeling tools applied to SE affected the system's outcome and performance? How do you successfully deal with cost, schedule, and performance trade-offs?
- **Green and Other Solutions** - What are some SE lessons learned dealing with green solutions? Are there green modeling techniques which are applicable through out the world? Do we see new green modeling techniques emerging that apply to SE? What are some lessons learned when applying green solutions? What are you and your organization doing to foster sustainable development, re-use, zero-footprint, and zero-emission system development?

**If you are available, please go out for full details at:** <http://www.incose-spring09.org/>. We would love to see a good showing from our local Chapter!

Before I forget, don't miss out on this week's events:

- **Science Affair Awardees**, 17 March, 1130 to 1300. CAPT Matt Scassero will be presenting certificates to the students that received INCOSE awards at the Science Fair this year, and students will be bringing their exhibits and explaining their projects. This is an excellent forum to see how today's youth are addressing complex problems that will help shape our future. Please come out and support them!

Please let us know if you would like to get involved with the AUVSI Student UAS Competition, 16-20 June 2009. That's it for this month. Looking forward to seeing you at one of our events. On behalf of the Board of Directors, we look forward to your continued support and engagement with INCOSE Southern MD.

Respectfully,

Steve McKeown  
President, Southern Maryland Chapter  
[president@INCOSE-SoMD.org](mailto:president@INCOSE-SoMD.org)

# INCOSE News

## **INCOSE Systems Engineering Vision 2020 Now Available**

INCOSE is pleased to publish a vision of Systems Engineering that reflects current practice, trends in industry, government and academia, and projects a vision of the state-of-the-art for 2020, which is available to members via the INCOSE Connect Product Area. All feedback to this document is solicited—please send your feedback to [vision@incose.org](mailto:vision@incose.org).

## **Congratulations CSEPs**

The INCOSE Certification Program Office recently announced that there are now over 300 Certified Systems Engineering Professionals (CSEPs) worldwide. Have you considered joining their ranks? For more information about INCOSE's Certification Program, please use the following link: <http://www.incose.org/educationcareers/certification/>.

## **INCOSE International Symposium Planning Underway**

The closing of the International Workshop signals a swift journey to the International Symposium. During the workshop, the papers, panels and tutorials were chosen for inclusion in the technical program. Letters will be going out soon to all those who took the time to send a submission. This year's program continues the practice that tutorials are available to attendees as part of the basic Symposium price. Keep an eye on the website for regular updates on the technical program, plus information regarding sponsors, exhibitors, and tours.

## **INCOSE Foundation Seeks Applications for Stevens Institute Doctoral Award**

The INCOSE Foundation, in cooperation with the Stevens Institute of Technology, is soliciting applications for the Doctoral Award for Promising Research in Systems Engineering and Integration. The purpose of this award is to inspire and recognize innovative doctoral-level research related to the field of systems engineering and integration. This award carries a US \$5,000 grant to the doctoral student along with a plaque and recognition at the annual INCOSE International Symposium.

Applicants must submit a completed application form and must have two academic faculty references submit recommendations on their behalf. Application and recommendation forms can be downloaded from the INCOSE Web site under the icon of "Advancing the Practice". The Foundation also requests a brief bio-sketch from each candidate. Completed application forms, faculty references, and the bio-sketch must be received by 15 April 2009. To be eligible, an applicant must be a qualified doctoral student in a degree program with an approved research proposal. The applicant must submit an electronic application, and applicants may not receive more than one award.

Please submit applications to Dr. William Ewald, Chief Executive Officer of the INCOSE Foundation at William.M.Ewald, [William.m.ewald@macrointernational.com](mailto:William.m.ewald@macrointernational.com).

## **INCOSE Foundation and Johns Hopkins University Applied Physics Laboratory Seek Applicants for a New Scholarship Award and Paid Internship**

The INCOSE Foundation, in partnership with the Johns Hopkins Applied Physics Laboratory (JHU/APL), is soliciting applications for the first Alexander Kossiakoff Systems Engineering Scholarship. The scholarship carries an award of \$5,000, a plaque, and recognition at the annual INCOSE International Symposium. The awardees will also be offered a paid summer internship at JHU/APL working on relevant systems engineering problems.

Applicants must be U.S. citizens and admitted students in a Masters or Doctoral Program in Systems Engineering at an accredited university. Applications are to include the following documentation: a complete resume/vitae, a brief bio-sketch, description of the study/research areas of interest (at least 3-4 pages), two faculty references, and a discussion of the contribution and expected outcomes that will benefit applications of



interest to the Laboratory (1-2 pages). See [www.jhuapl.edu](http://www.jhuapl.edu) for possible applications of interest. The research should also contribute to the publication of a paper in a systems engineering journal or conference. Any questions about the documentation criteria should be addressed to Dr. Sam Seymour at JHU/APL, (240) 228-5711 or [Sam.Seymour@jhuapl.edu](mailto:Sam.Seymour@jhuapl.edu). The complete application package must be received by 15 April 2009. Electronic applications should be submitted to Dr. William Ewald, CEO of the INCOSE Foundation, at [William.m.ewald@macrointernational.com](mailto:William.m.ewald@macrointernational.com).

### Acquire valuable skills!

The GEOSS working group is offering a unique opportunity to volunteers who know (or are willing to learn) UML and RMODP standards and would like to practice creating net-centric architectures consistent with DOD directives. Contact Larry McGovern at [lawrence.mcgovern@ngc.com](mailto:lawrence.mcgovern@ngc.com).

### Schedule of *INSIGHT* Deadlines

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

SUBMISSION DATE	PUBLICATION DATE	THEME	THEME EDITOR
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](http://www.incose.org). On the left side, select the option to View / Update Member Record.

# Chapter *Highlights*

## Outreach: *Feature Story!*

### **INCOSE Spring 09 Conference Sponsored by Southern Maryland Chapter**

The INCOSE Spring 09 Conference will be held on 2-4 April 2009 at the Virginia Modeling, Analysis and Simulation Center (VMASC), Suffolk, VA. The conference theme for the INCOSE Spring 09 Conference 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.

Papers in all areas of systems engineering leadership, green and other solutions, and complexity, cost, schedule, and performance have been accepted. Sponsors are still being accepted. For more information, contact Conference Chair Karl C. Geist at [kgeist@md.metrocast.net](mailto:kgeist@md.metrocast.net) or (301) 475-5646. You may now register and obtain the latest information at [www.incose-spring09.org](http://www.incose-spring09.org)

### **The Ambassador Ads**

Chapter members can discretely place a synopsis of their resume here for distribution throughout the Chapter's contact list to help them find job opportunities. The individual is given a unique number, such as 010709 (date resume submitted), to identify their resume. 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 Ads" in the newsletter to help find that "right" employ. The company will also be given a unique number. Here is our first resumé:

**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](mailto:president@incose-somd.org).

## *Member Profile*

Please welcome our new members:

**Karen Garner** joined on 3 March. She is President of Research and Engineering Development, Inc. Her e-mail is [karen.garner@red-inc.us](mailto:karen.garner@red-inc.us), and phone number is (301) 342-9285.

**Terry Hearn** joined on 3 March. He is a Business Development Consultant. His e-mail is [twhearn@verizon.net](mailto:twhearn@verizon.net), and phone number is (443) 994-4505.

**Dan Schneider** joined on 3 March. He is a Sr. Analyst/Engineer for AMEWAS. His e-mail is [dan.schneider.ctr@navy.mil](mailto:dan.schneider.ctr@navy.mil), and phone number is (301) 863- 7102.

## Chapter Highlights (cont.)

### 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](mailto:kgeist@md.metrocast.net), Dawn Jaeger at [Dawn.Jaeger@navy.mil](mailto:Dawn.Jaeger@navy.mil), or Steve McKeown at [mckeown\\_steve@bah.com](mailto: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 Chapter Meeting

*Hosted by INCOSE SoMD Chapter in Patuxent River, Maryland*

**When:** 17 March 2009, 1130-1300

**Where:** Cedar Point Officer's Club

**Theme:** St. Mary's County Science Fair AWARDEES Luncheon

**Info:** [www.incose-somd.org](http://www.incose-somd.org)

**Speaker:** CAPT Matt Scassero and the St. Mary's Science Fair Winners

**POCs:** John B. Walker at 301-342-2348, [John.Walker@incose-somd.org](mailto:John.Walker@incose-somd.org) or Steve McKeown at 301-862-7033, [Steve.McKeown@INCOSE-SoMD.org](mailto:Steve.McKeown@INCOSE-SoMD.org)

**Venue:** Buffet

**Cost:** \$5.00 for SoMD INCOSE Chapter members, \$8.00 for Non-members

**Description:** Late January 2009, members of INCOSE SoMD learned first-hand that innovation is alive and well in St. Mary's County. More importantly, county high school and middle school students were given an opportunity to challenge themselves in a friendly competition with their fellow county students in presenting their individual science and engineering projects. Why is this big deal? These young people are the future of our profession and our country's competitiveness in a global economy. Please come and show your support for our county youth by seeing the prize winning exhibits and talking with their creators. This should be a very interesting event! CAPT Matt Scassero will be our guest speaker and the Master of Ceremonies.

#### 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.

#### INCOSE Webinar

*Hosted by INCOSE*

**When:** 18 March 2009 at 1100

**Where:** Internet (by e-mail invitation)

**Theme:** REGAL - Requirements Engineering Guide for All

**Info:** [www.incose.org/practice/webinars.aspx](http://www.incose.org/practice/webinars.aspx)

**Speaker:** Gauthier Fanmuy, Technical Director of ADN

**POCs:** Art Pyster, Chairman of the Corporate Advisory Board

## Upcoming Events (cont.)

**Cost:** Free for members and CAB company employees

**Description:** The webinar will provide a practical overview on the following topics:

- Benefits of using REGAL for the WGs to collect and review good practices
- How to use REGAL as a practical guide to implement the INCOSE SE Handbook
- How to administrate REGAL within a WG for moderation and approval of good practices
- Perspectives of REGAL enhancement: a collaborative work with RWG (Requirement), IVV&T WG (Integration, Verification, Validation & Tests) and BWG (Bio Medical)

### Project Management Institute (PMI) Monthly Luncheon

*Sponsored by PMI SoMD Chapter*

**When:** 18 March 2009, 11:30-1:00

**Where:** NAS Officer's Club, Patuxent River, MD

**Theme:** Challenges of Earned Value with Software

**Speaker:** Ms. Amy Caruso

**Info:** <http://www.onepmi.org/PMIWeb/OneColumnPage.aspx?PageID=462>

**POC:** Tanya Bassett at (240) 298-7392 , [president@pmisomd.com](mailto:president@pmisomd.com)

**Venue:** Hot Buffet

**Cost:** \$10 with a chance to win a door prize

### 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](mailto: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.

### Southern Maryland SPIN Chapter Meeting

*Hosted by SoMD SPIN Chapter*

**When:** 1 April 2009, 1700-1900

**Where:** Frank Knox Building, Room 120

**Theme:** TBD

**Speaker:** TBD

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

**POC:** Liz Burnett at 301-862-7398, [Liz.Burnett@ManTech.com](mailto:Liz.Burnett@ManTech.com)

**Venue:** Food and Refreshments

**Cost:** Free

**Description:** TBD

### 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](mailto:BetterSE@hcode.com), (850) 479-1985

**Description:** The INCOSE Certified Systems Engineering Professional (CSEP)

## Upcoming Events (cont.)

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. Certification requires passing an extensive examination based on the INCOSE SE 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](mailto: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](mailto: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.

### 7<sup>th</sup> 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](mailto: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.

## Upcoming Events (cont.)

### 21<sup>st</sup> 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](http://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:** [ssstc-info@ext.usu.edu](mailto:ssstc-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](mailto: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> <http://www.incose.org/symp2009/>

**POC:** ASK International Conference, [is2009@askintlconference.com](mailto: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

## Upcoming Events (cont.)

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.

### 2010 INCOSE International Workshop

**When:** Late January – early February 2010

**Where:** TBD

**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.



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SoMD BOARD OF DIRECTORS

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