



SE REVIEW



May 2009

Volume 9, Number 5



Next Board Meeting
 4 June 2009
 1700
 Booz Allen
 Hamilton
 Expedition Bldg

Next Chapter Meetings
 19 May 2009
 1130-1300
 Wyle Labs Training
 Center, FREE lunch

Inside this issue:

- President's Perspective1
- INCOSE News 2
- Chapter Highlights... 4
- Upcoming Events7
- SoMD Current Board of Directors10

President's Perspective

Colleagues,

For the 8th consecutive year, the Southern MD Chapter of INCOSE is the recipient of the Gold Circle Award. This is a reflection on the hard work and dedication of our members to continuously look for the ways and means to improve the systems engineering community both on a local level and international level. Taken from the letter that was sent to the Chapter is the following quote:

"High quality, vibrant chapters are essential to INCOSE's drive to enrich, educate, and enlighten the INCOSE membership while improving recognition of INCOSE and the systems engineering profession. The Member Board and INCOSE extend heartfelt thanks and appreciation to the Southern MD Chapter for its contributions towards attaining these goals."

I am starting my 4th year with INCOSE, and this is exactly what I see in our membership. We have participants engaging with key INCOSE committees and working groups at the International level. We also have dedicated individuals, many who have been with this chapter since inception, that continuously look to elevate the state of the practice of systems engineering and impart what they know to students, junior engineering staff embarking on their careers, and fellow INCOSE members that are seasoned engineers. Through INCOSE International, they bring thought leadership into the local systems engineering community on a continuous basis. Congratulations to the INCOSE Southern MD Chapter again for a job well done!

With this in mind, our next big event where multiple hands are needed will be the AUVSI Student UAS Competition, 17-21 June 2009. Please let Dawn Jaeger, Dawn.Jaeger@INCOSE-SoMd.org or Karl Geist, Karl.Geist@INCOSE-SoMd.org know of your willingness to help get involved with registration, hosting the student reception, and other activities throughout the entire event.

We have a very interesting topic that we are offering on 19 May, Impacts of Ethnicity and Culture on the Systems Engineering (SE) Support of International Projects. This will be a FREE event hosted at Exploration (near Wyle Labs on Rt. 235) from 1130 to 1300 and will include pizza and beverages. This promises to be a very engaging topic and was part of the content of INCOSE 09 in Suffolk, VA that we think you will enjoy! Also look for details on a night out with the Blue Crabs in June!

That's it for this month. Looking forward to seeing you at one of our events. From 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



INCOSE News

Call for Nominations for INCOSE President Elect

If you, or someone you know, qualify to serve as INCOSE president-elect, please notify the Nominations & Elections Committee.

From: The Nominations & Elections Committee

In 2009, we have the duty to identify and then select the next President of INCOSE. The BOD has delegated the responsibility for collecting nominations and identifying candidates to the Nominations and Elections Committee. We ask you, the members to identify INCOSE Members for this election. You may nominate yourself. Please send the name of your proposed candidate to the Virginia (Ginny) Lentz, Chair of the Nominations & Elections Committee before Saturday 15 May 2009. If you have questions, you may contact any of the following members of the Nominations and Elections Committee:

Virginia (Ginny) Lentz: vlentz1@nc.rr.com –Chair
David Wright: David.M.Wright@lmco.com –Co – Chair
Ken Kepchar: Kenneth.Kepchar@faa.gov
Ken Crowder: KVCrowder@aol.com
Pat Sweeney: Patrick.Sweeney@lmco.com
Bob Scheurer: Robert.P.Scheurer@boeing.com
Tim Ferris: Timothy.Ferris@unisa.edu.au

Information on the Position of President Elect

The person you nominate may be elected to the Office of President-Elect (2010 and 2011) and will be President in 2012 and 2013. The President Elect is the Chief Operating Officer of INCOSE. The President is the CEO and spokesperson for INCOSE. The President Elect provides leadership and strategic direction for the organization. The President should be a recognized spokesperson for the advancement of systems engineering and possess proven leadership experience in industry, government, and/or academia. Demonstrated dedication to INCOSE's mission, values, and organizational growth is an essential requirement for candidacy. Ideally, the candidate will hold a professional position involving frequent interaction with decision-makers in the industries dependent on systems engineering. Additional position description information is available in the member's area on the INCOSE web site: <https://connect.incose.org/govern/Policies/Position%20Descriptions/>

This is the first of two call for Nominations. The second for the remaining positions up for election in 2009 will be released in early summer.

19th Annual INCOSE Symposium July 19-23

The brochure for the INCOSE International Symposium concurrent with APCOSE 2009 - July 19-23, 2009 - Singapore is now available on the website and early registration is open. Look for your invitation in the mail, or check the website <http://www.incose.org/symp2009/>.

DUES RENEWALS

Starting this year, you will receive an e-mail notification and invoice for dues renewal. Please check your record online for your expiration date and make any contact changes to your record. Don't let your membership lapse and lose your INCOSE benefits. You can send a check, or call the INCOSE office with your renewal information, or renew online <https://www.incose.org/membership/renew.aspx>. If you've forgotten your membership number or your password to review your record, please click on 'Reset Password' <http://www.incose.org/membership/requestPWreset.cfm> in the left-hand column on the INCOSE homepage.



INCOSE FOUNDATION DEADLINE EXTENDED FOR JHU/APL APPLICATIONS to MAY 15th

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 awardee will also be offered a paid summer internship at JHU/APL working on relevant systems engineering problems.

The 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 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, phone number: (240) 228-5711; email: Sam.Seymour@jhuapl.edu.

The complete application package must be received by 15 May 2009. Electronic applications should be submitted to Dr. William Ewald, Chief Executive Officer of the INCOSE Foundation, at William.Ewald@incose.org.

Recognition of the INCOSE CSEP-ACQ

The Defense Acquisition University (DAU) recognizes the INCOSE CSEP- ACQ certification as meeting or exceeding the desired outcome, content, and evaluation techniques of the DAU courses SYS 101 and SYS 202. Therefore, DAU considers CSEP-ACQ the equivalent to SYS 101 and SYS 202 for all DAU Course prerequisite and DoD AT&L acquisition career field certification requirements.

For more information, you are invited to contact Mark Camporini, Director, Academic Programs at DAU (<http://www.dau.mil/>). An INCOSE website link can be found at <http://www.incose.org/educationcareers/certification/csepagreet.aspx>. For more information on INCOSE's certification program, please visit <http://www.incose.org/educationcareers/certification/>.

Schedule of INSIGHT Deadlines

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

SUBMISSION DATE	PUBLICATION DATE	THEME	THEME EDITOR
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!*

INCOSE Spring 09 Synopsis

By Karl Geist

Good things come in small packages. With this in mind, I would like to offer a brief synopsis of the INCOSE Spring 09 Conference. Region V decided last Spring (2008) that it would be a benefit to INCOSE members to have a conference in the U.S. they could attend, if their budgets couldn't stretch for Europe or Southeast Asia. Organized and sponsored by the Alamo, Atlanta, Chesapeake, Savannah River, Hampton Roads, Orlando, Southern Maryland, and Washington Metro Chapters, the INCOSE Spring 09 Conference was born. We were able to pull together an excellent slate of plenary speakers, panels, tutorials, and papers.



The Conference was held at Old Dominion University's Virginia Modeling and Simulation Center In Suffolk, Virginia. This beautiful facility had a large conference room on the main floor, a sizeable dining area, and three large presentation rooms on the second floor. The best part was that all four venues were wired for video and sound, which provided the venue for INCOSE's first Webcast conference. The conference was sent via the web to several location including Orlando and was viewed live. They were also linked via audio for live interaction with the presenters.



All three Technical Tracks were broadcast. Just like the conference attendees, the viewers could choose from the Leadership Track, the Green and Other Solutions Track, and the Complexity, Cost, Schedule, and Performance Track, all which included a mix of paper presentations, discussions, panels, and tutorials.

Dr. John Snoderly, Past INCOSE President and Program Learning Director for the Defense Acquisition University (DAU), gave an outstanding opening plenary on the Direction of Systems Engineering, discussing new ways DAU is changing its delivery systems to give quality SE education to its Department of Defense (DoD) student base. Many of the DAU resources are also made available to the public.

The day was additionally filled with excellent presentations like Conference Chair Karl Geist's Tutorial on Certification, Charles Wassons presentations on Systems Engineering in the 21st Century, and Tariq Ahram's paper on the Return on Investment (ROI) for Human Systems Integration. The day was topped off by a great reception sponsored by Booz Allen Hamilton. This was one of the great networking opportunities of the conference.

Chapter Highlights (cont.)

Day Two of the conference started in great fashion with Gordon Krantz, Director of the Office of Systems and Software Engineering for the Office of the Secretary of Defense, providing an interesting presentation and lively discussion with the attendees on DoD's changing Systems Engineering policies and how they will affect the course of business and development for DoD products. This phenomenon (presentation and lively discussion) was often repeated over the three days of the conference. Other highlights of the second day showcased a tutorial by INCOSE Fellow Sarah Sheard on Complexity and its Impact on the Systems Engineering of Complex Systems. Panel discussions were heard on the future of INCOSE certification and the FAA next generation solution, and papers were given on Human Systems Integration by Abe Meillich, Systems Oriented Architectures by Robert Lario, and Global Systems Engineering—a reprise by Eileen Arnold of her International Symposium (IS) 08 paper.



The final day featured an all-day tutorial on Systems Thinking Practices for Decision making by Drs. Gabriel Bell and Holly Latty-Mann and a panel on Systems Engineering Lessons Learned with Dr. John Snoderly, Kevin Forsberg, and Karl Geist. Papers presented included a discussion on Technical Performance Measures and Chaos in Risk Management by James Armstrong and a Pragmatic Complexity Framework by Joseph and Mary Simpson. The final plenary was an insightful presentation on System's Management given by Kevin Forsberg.

The key to the success of this conference is pictured below which depicts the conference chairs: Phil Simpkins, Conference Coordinator; Dave Takacs and Dr. Joe Krupa, Conference Co-Technical Chairs; Karl Geist, Conference Chair; and Cyrus Afshar, Tutorial Chair. The parting comment by all in attendance was "I did I mention that the food was great"! This conference appears to have successfully "feed both the body and the mind".



Maryland Blue Crabs Outing

As summer rolls around, the INCOSE Southern Maryland Chapter wanted to do something different and something special for its members, so they are proud to sponsor "a night with the Blue Crabs!" This will be picnic and baseball game held at the Regency Furniture Stadium, Picnic Area, 11765 St. Linus Drive, Waldorf, MD 20602 on Thursday, 25 June 2009, at 6:30 p.m. This social event is for all chapter members and their family.

Chapter Highlights (cont.)

The cost of this special event is \$10 per person, as the chapter will underwrite the additional cost of food and ball park admission. The event will feature admission to the stadium Picnic Area for the Lancaster Barnstormers verses Southern Maryland Blue Crabs baseball game starting at 7:05 p.m. and a two-hour (6:30-8:30) all-you-can-eat picnic buffet consisting of Barbequed Pork, Hamburgers, Hot Dogs, Potato Salad, Baked Beans, Cole Slaw, Banana Pudding, and assorted Sodas. Attendees can also purchase in advance, at an additional charge, an adult "2-hour all-you-can-drink plan" for \$15.50 per person, or for children ages 6-12, an "all-you-can-ride activities pass" for \$10.00.

The park opens at 6 p.m., and this will be a great social event for all. The picnic area is located beyond the left field and is an excellent location to enjoy the game. The Blue Crabs have proven to be one of the most exciting teams in the Atlantic Coast League.

Come out and root them on with your family. For more information or reservations, contact Karl Geist at 301-475-5646 or via email at kgeist@md.metrocast.net.

Impacts of Ethnicity and Culture on the Systems Engineering (SE) Support of International Projects

On 19 May 2009, 1130 to 1300 at Wyle Labs Training Center, Rt. 235, Conference Room # 3, we will be providing free pizza and beverages for this event.

This presentation is mainly a statement of the problems in implementing Systems Engineering Process in the context of different ethno-cultural settings. It asserts that SE implementation requires several modifications as well as shifts in prioritization and emphasis in applying various SE analyses and techniques to what is commonly practiced in Northern America.

Taking a conventional project lifecycle as platform, a collection of lessons learned gathered during executing international projects are used to describe, evaluate, and propose a number of alternative approaches for three areas of SE support: (1) Integrated Product Team (IPT) formation, (2) Risk Management and Prioritization approach, and (3) Human System Integration (HSI) Criteria.

Cyrus Afshar is the Systems Engineering Manager at the EG&G Division of the URS Corporation. Cyrus began his career as a nuclear engineer working on the reliability, safety, and Probabilistic Risk Assessment (PRA) of the advanced designs of the nuclear reactors. By the end of the cold war and rise of international interests in the safe operation of the Soviet design reactors, he began supporting DOE International Nuclear Safety Program in Russia, Czech Republic and Slovakia. This work scope directed his focus toward the "big picture" integration, operational aspects, and human factors issues.



Please RSVP to Dale Raney, Dale.Raney@INCOSE-SoMd.org or Karl Geist, Karl.Geist@INCOSE-SoMd.org if you are able to attend. We need an accurate head count to secure the proper amount of food and beverages.

Member Profile

Please welcome our new members:

Anastasia "Ana" Mack joined on 5 May. She is a Systems Engineer/MH-60S Deputy Class Desk with NAVAIR. Her e-mail is ana.mack@navy.mil, and phone number is (301) 757-5353.

Corley "Beau" Senyard, Jr. joined on 2 May. He is a Sr. Manager with KPMG LLP. His e-mail is csenyard@kpmg.com, and phone number is (240) 394-0660 .

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 Chapter Meeting

Hosted by INCOSE SoMD Chapter in Patuxent River, Maryland

When: 19 May 2009, 1130-1300

Where: Wyle Labs Training Center

Theme: Impacts of Ethnicity and Culture on the Systems Engineering (SE) Support of International Projects

Info: www.incose-somd.org

Speaker: Cyrus Afshar, URS

POCs: Dale Raney at 240-925-3455, Dale.Raney@incose-somd.org or Steve McKeown at 301-862-7033, Steve.McKeown@INCOSE-SoMD.org

Venue: Food (Pizza) and Refreshments

Cost: Free

Description: This presentation is mainly a statement of the problems in implementing Systems Engineering Process in the context of different ethno-cultural settings. It asserts that SE implementation requires several modifications as well as shifts in prioritization and emphasis in applying various SE analyses and techniques to what is commonly practiced in Northern America.

PMI SoMD Chapter Spring All-Day Seminar

Sponsored by Project Management Institute, Southern Maryland Chapter

When: 20 May 2009, 8:00 am-5:00 pm (earn 7 PDUs)

Where: Bay District Vol. Fire Dept. Social Hall 46900 South Shangri-La Drive, Lexington Park, MD

Theme: No-Nonsense Advice for Successful Projects

Speaker: Mr. Neal Whitten, PMP

Info: <http://www.onepmi.org/PMIWeb/default.aspx?compid=1030>

Cost: PMI members - \$250; General Public - \$275 (Fee includes seminar, materials, breakfast, lunch and a copy of the book, Neal Whitten's No-Nonsense Advice for Successful Projects)

POC: Tanya Bassett, PMI SoMD President, (240) 298-7392, president@pmisomd.com

Description: Popular speaker and best-selling PM author Neal Whitten takes leadership and project management to a personal level by revealing leading-edge best practices that make all the difference between leading consistently successful projects and playing the victim with troubled projects. If you came to Neal and asked, "I only have one day of my life for our paths to cross. What can you tell me from all you have learned from a 35+ year career that will make my projects and career more successful and rewarding?" This workshop is the one day that Neal would share with you. Successful projects — and careers — don't just happen, they are made to happen. Focusing mostly on leadership and soft skills, this thought-provoking seminar reveals choices to make and behaviors to adopt that are invaluable in helping you become a successful project manager and leader. The

Upcoming Events (cont.)

workshop is based largely on Neal's best-selling book, Neal Whitten's No-Nonsense Advice for Successful Projects. Learn to think for yourself, re-energize your initiative and drive, and take control of your destiny. It's not about the ability of those around you to lead; it's about your ability to lead, despite what is happening around you.

PMI SoMD Chapter Special Evening Event

Sponsored by Project Management Institute, Southern Maryland Chapter

When: 20 May 2009, Happy Hour 5:30 pm-6:00 pm, Presentation 6:00 pm - 7:00pm
Where: Bay District Vol. Fire Dept. Social Hall 46900 South Shangri-La Drive, Lexington Park, MD
Theme: Eight Dumb Project Management Beliefs
Speaker: Mr. Neal Whitten, PMP
Info: <http://www.onepmi.org/PMIWeb/default.aspx?compid=1030>
Cost: Free for All-Day Seminar Attendees
(\$10 for Evening Only Participants - includes seminar, materials, and appetizers)
POC: Tanya Bassett, PMI SoMD President, (240) 298-7392, president@pmisomd.com

Southern Maryland SPIN Chapter Meeting

Hosted by SoMD SPIN Chapter

When: 3 June 2009, 1700-1900
Where: Frank Knox Building, Room 120
Theme: Measurement for Maturity and Process Improvement
Speaker: Peter Baxter, Distributive Management LLC
Info: <http://www.somdspin.org/>
POC: Liz Burnett at 301-862-7398, Liz.Burnett@ManTech.com
Venue: Food and Refreshments
Cost: Free
Description: TBD

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.

Second International Systems Symposium

Co-sponsored by: MIT's [Engineering Systems Division \(ESD\)](#) and the [Council of Engineering Systems Universities \(CESUN\)](#)

When: 15-17 June 2009
Where: MIT, Cambridge, Massachusetts
Theme: The Emerging Field of Engineering Systems: Achievements and Challenges
Info: <http://esd.mit.edu/symp09>
POC: Stefanie Koperniak, skoperni@MIT.EDU

Upcoming Events (cont.)

Description: This second Engineering Systems Symposium hosted by MIT will focus on the evolution of engineering systems approaches in research and education. The three-day event will provide attendees with a broad perspective on the latest advances in research, achievements in industry, and future challenges in the field. The June 2009 Symposium will include:

- Presentations and discussions on engineering systems research, education, and practice
- Two days of plenary sessions with speakers from industry and academia; one day of concurrent research paper sessions
- Distinguished speakers including Charles M. Vest, president of the National Academy of Engineering and former president of MIT, and Norman Augustine, retired chairman and CEO of Lockheed Martin Corporation

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

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.

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.

SoMD BOARD OF DIRECTORS

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