



# INCOSE Chesapeake Chapter

International Council on Systems Engineering

## E-Newsletter

**August 2012**

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We got a great newsletter this month. August is turning into a hot month in Systems Engineering. This newsletter is filled with information about all these cool events. So mark your calendars and register now.

- **Two Day Workshop: Monday/Tuesday 13-14 Aug:** Understanding and Using the new DODAF v. 2.02 with *Dr. Drew Hamilton*
- **Our Monthly Dinner/Lecture: Wednesday 15 Aug:** A SE Approach to Finding Amelia with *Gundars Osvald*
- **SEP Celebration: Wednesday 29 Aug:** For ASEP/CSEP/ESEPs only

**Also this month is also the beginning of our annual election cycle.** So be looking for an announcement soon. Meanwhile please consider running for the Board. Why should you run for Our Chesapeake Chapter Board of Directors?? [Read an excellent article from our past-president George Anderson, which answers that very question.](#) It's worth a read and worth considering getting more involved with one of the best local chapters in the world.

~~ Paul B Martin, CSEP; INCOSE Chesapeake Communications Officer

**Dinner/Lecture 15 Aug 2012 (6:00 – 8:00 pm)**

### [A SE Approach to Finding Amelia](#)



Speaker: *Gunders Osvald*

**Presentation:** Systems Engineering processes are applied to the problem of searching for Amelia Earhart's Lockheed Electra model 10E aircraft, Bureau of Air Commerce registration number NR16020 that failed to arrive at Howland Island on July 2, 1937. We are aware of at least five searches that have been conducted both on the sea bottom and on islands in the vicinity of Howland Island and are impressed with the overall dedication, professional execution and significant costs incurred by volunteers, private

foundations, commercial sponsors, and the U.S. Government. The goal in this lecture is to define the search area and describe a Systems Engineering process that can be used in the future to conduct an ordered and continuously updated set of search priorities. Many of the fundamental

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This is the monthly newsletter for INCOSE Chesapeake, a local chapter of INCOSE International. We are a not-for-profit organization dedicated to providing a forum for professionals practicing the art and science of Systems Engineering in the Northern & Central Maryland & Southern Pennsylvania area.



**Mark your Calendars with these upcoming events:**

**Wednesday, Sept 15, 2012**  
[Complexity Theory and Systems Engineering](#)  
*Dr. Sarah Sheard*

The Chesapeake Chapter is always looking for volunteers to speak at our upcoming meetings!

search techniques are discussed, including the use of scenarios and Bayes Theorem.

**Location:** [Applied Physics Laboratory, Johns Hopkins University](#); 11100 Johns Hopkins Rd Laurel MD 20723 (Main Entrance – Lobby 1)

**Join us for an indoor Summer Barbecue:**  
Grilled BBQ chicken – drumsticks thighs and breasts grilled; roasted red potato wedges; cole slaw and watermelon slices, with garden salad dressing, rolls and butter, dessert, coffee and iced tea.

[>>Download the Meeting Flyer Here<<](#)

**Reservations:** Purchase a ticket to this event by Credit card via PayPal, go to our [Registration Page](#)

**Presentation ONLY: FREE at 7pm in Parsons Auditorium**

But please [register](#) for Lecture Only Option: There could be a big turnout for this event, for planning purposes please RSVP via our registration webpage even if you don't plan on joining us for dinner.

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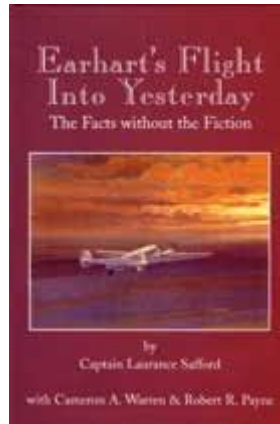
## **Two Day Workshop 13-14 Aug 2012 (7am – 3pm)** **Understanding and Using the new DODAF v. 2.02**



Speaker: Dr. Drew Hamilton is a technical expert on JCIDS and the DODAF.

**Tutorial:** The DOD released version 2.02 of the DOD Architecture Framework (DODAF) represents major changes and further integrates net-centricity into DOD architecture efforts. Joint Staff requirements (including JCIDS) continue to expand DODAF-compliant architecture requirements. In a resource-constrained environment Combatant Commanders are developing DODAF architectures that directly impact how DOD will develop and field all future capabilities. JCIDS mandates all ongoing and future acquisitions must include integrated architectures that comply with DODAF requirements. This seminar provides an

example-based methodology for designing operational, capability, service, program, technical and systems architecture views and products that are consistent with the guidelines of the DoD Architecture Framework version 2.0 (DoDAF). You will receive step-by-step compliance guidelines for ensuring your technologies, systems and architectures meet the technical and

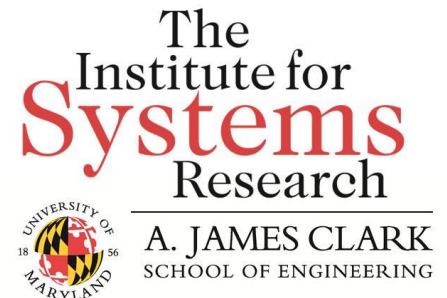


Aug. door prize:  
[Earhart's Flight Into Yesterday, The Facts without the Fiction](#)  
by Captain Lawrence Safford

Please contact our 2012 Programs Director, [Mr. Erik DeVito](#), if you would like the opportunity to speak or can recommend someone.

The Chesapeake Chapter of INCOSE is proud to recognize the following organizations for sponsoring our endeavors to expanding the understanding and appreciation of Systems Engineering in the local area:

Booz | Allen | Hamilton



architectural requirements imposed by the DoD. Learn how to save time following successful strategies while avoiding costly pitfalls when meeting DoD requirements. If you produce architectures, systems and technologies for DoD and the Services, you must ensure that your products are compliant with DoDAF. All new acquisitions must include integrated architectures in their JCIDS documentation including ICDs, CDDs and CPDs and must be DODAF-compliant. **Cost:** Cost: \$995 includes Continental Breakfast, Lunch, and afternoon snack. Register online: [Technology Training Corporation registration webpage](#)

[>>Download the Tutorial Flyer For More Info<<](#)

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## Presidents POV

# After Rome, What's Next?



*Our Chesapeake Chapter President, Dr. York, basking in the Italian sun as well as the Chapter's latest Gold Circle Award*

Well, the 2012 INCOSE International Symposium is now history. I was not disappointed as my expectations for the IS were met in every way. I was enlightened by plenary speakers such as The Honorable Michael Chertoff, former Secretary of the U.S. Department of Homeland Security, as he spoke about systems engineering for disaster planning and how we need to architect the entire system in order to effectively implement cyber security. I collaborated with INCOSE Chapter Presidents not only from across the Americas Sector but from around the world. I rubbed shoulders with and celebrated with some of INCOSE's finest – our ESEPs, CSEPs and ASEPs. I had the honor of representing our Chesapeake Chapter as we received INCOSE's Gold Circle Award for our chapter's achievements in 2011. Nor was I disappointed in my expectations of the ancient Romans as systems engineers. Visits to the Coliseum, the Pantheon, the Forum, and Roman aqueducts all left me in amazement and awe as to their systems engineering achievements over twenty centuries ago. In fact, the hotel that hosted the symposium was built atop a 2000 year old Roman road now preserved below the lobby foyer and visible through a glass floor. Invigorated by the IS in Rome with a fresh impetus for the profession, let's turn out attention and energy to the upcoming Chesapeake Chapter systems engineering events. We have the [Systems Engineering Certification celebration and recognition banquet](#) on August 29th at the Engineers Club in Baltimore for our certified SE professionals. We will be honored with two esteemed SE colleagues as guest speakers, our Americas Sector Director, Ray Jorgensen, and Jerry Fisher, the INCOSE Chair of the INCOSE Certification Advisory Board. And don't forget our special joint meeting with AIAA on August 15th with a special lecture on [A Systems Engineering Approach to Finding Amelia](#). Lastly, come join our special

# APL

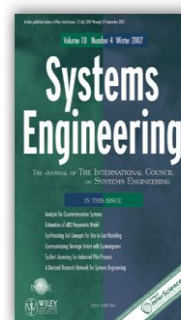
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With Connect you can also download INSIGHT April 2012, Vol 15 - Issue 2 *Special Feature: Systems of the Third Kind*





two-day [Systems Engineering Workshop on Understanding and Using the new DODAF v. 2.02](#) on August 13-14. Come grow professionally, stay informed, network with other professionals and be a part of advancing the practice of Systems Engineering! I look forward to seeing each of you!  
Regards, *Dr. Don York, CC President*, [donald.york@incose.org](mailto:donald.york@incose.org)

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## Announcements

### [Are you a SEP? Then Save the Date: Aug. 29, 2012](#)

For the past two years our chapter has been celebrating those who have an INCOSE certification at the beautiful Engineers Club of Baltimore. This year will be no different. So mark your calendars now and **SAVE THE DATE: Aug. 29, 2012**. Plan to be there. If you haven't seen your invitation in the mail then [>>>Download it Here<<](#) Read about and see pictures from the last two galas:

- [2nd Annual Systems Engineering Professional Gala \(September 7, 2011\)](#)
- [Celebrating the CSEPs in our midst \(August 26, 2010\)](#)

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## Get involved: Two new Working Groups to Consider

### 1) [Future of Energy working group](#)

Dr. Alex Pavlak is setting up a Future of Energy (FoE) Working Group. This Working Group will focus on whole systems, the delivery of energy that is cheap safe sustainable and secure. It will consider on the destination, the long term goal of proposing technically feasible alternatives. Through publications and lectures, the FoE working group will raise public awareness of these factual constraints on social value choices. If you are interested in participating, please email Dr. Pavlak at [alex@pavlak.net](mailto:alex@pavlak.net).

### 2) [Systems Engineering – Project Management \(SE – PM\) Working Group](#)

Dave Fadeley, ESEP, is forming a Systems Engineering - Project Management (SE - PM) Working Group with the intent of working with PMI Baltimore chapter members in order to enhance overall program success through the improved integration of practices between the two communities. If you are interested in participating, please send Mr. Fadeley an email at [dbfadeley@verizon.net](mailto:dbfadeley@verizon.net).

Click on image above and Log-In today.

"Systems of the third kind include variations of currently popular labels such as chaotic, complex-adaptive, autonomous, resilient, sustainable, agile, and human activity. They move among us already: cars that drive themselves in urban environments, helicopters that land autonomously, lethal weapons that decide when and where to shoot, unmanned aircraft in the national airspace. Some work alone; others are being taught to work in packs and swarms. Emergent behavior is expected, with consequences, and with virtually no systems engineering guidance." Theme editors: Rick Dove, Jack Ring, and Thomas Tenorio.

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### Newest Chapter Members

- Stuart Broadwater
- Alan Ingal *Booz Allen Hamilton*
- Bob Pohl *Booz Allen Hamilton*
- Adam Schnitzer *Booz Allen Hamilton*
- Mike Silvestri *Prime Solutions, LLC*.

We welcome our latest new members. We look forward to seeing you at our meetings and tutorials.

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**This Newsletter is to serve our members and is open to all for contributions. Do you have an interesting idea for an article? A**

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## Did You Miss Last Month?

# [SE Contributions to the Next Generation Air Transportation System](#)



*Dr. Baldwin speaks to INCOSE Chesapeake Chapter on the Next Generation Air Transportation System*

On July 18th we listened to Clifton Baldwin, Ph.D., ESEP, PMP, the Senior Technical Adviser to the FAA's William J Hughes Technical Center discuss NextGen: the transformation of our national airspace system, making it flexible and sustainable. It's important to note that NextGen is not a single program or procedure but a comprehensive initiative that integrates new and existing technologies, procedures and

policies. Dr. Baldwin admitted this program is in reality a quite large Systems of Systems project which includes updating Concept of Air Traffic Operations as well as a Technology refresh of all the various systems/sub-systems. A very complex undertaking.

[>>>Check out the complete write-up on the event as well as Dr. Baldwin's presentation..>>](#)

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## SE Ruminations from our Blog

### [1\) IS2012: Chesapeake Chapter Report](#)

Several members talk about their experience at the 22nd Annual INCOSE International Symposium in Rome. Alex Pavlak talked about presenting his paper, *Engineering Clean Energy Systems*, as the last paper on the last day. Steve Sutton explains how much the Institute for Systems Research University of Maryland was involved in the Symposium. Paul Martin just rambles a bit. [>>>Read more at our blog>>](#)



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review of a new book related to engineering? [Let us know.](#) We'd love to hear about. It may wind up in a future issue of our Newsletter.

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*John Thomas presents Dr. Pavlak a Best Paper award during INCOSE's 2012 International Symposium.*

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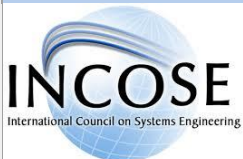
[>>>Read more at our blog>>](#)

## [2\) The Cloud: Why should we care?](#)

*By Paul Martin*

What is this cloud thing? Is it another new fangled fad fleeting about in the firmament only to burn out as more people discover it's just a fancy figment of some marketers imagination? [>>>Read about all the fuss at our blog>>](#)

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Keep up with the latest news and events. Find out about our new Board of Directors. Explore our extensive library of previous lectures from our Monthly Dinner Meetings. Learn of the Benefits of Joining INCOSE. Check out Systems Engineering education in the local area. All this and more awaits you at our [INCOSE Chesapeake Chapter Website](#).

For any comments or suggestions about this newsletter please e-mail our [President, Don York](#) or our [Communications Officer, Paul Martin](#). We value your feedback.

**Board of Director Officers, 2012**

- President: Dr. Don York
- Past President: Dr. John Lewis
- President Elect: Dr. William Ewald
- Treasurer: Mr. David Alldredge
- Secretary: Mr. Mark Kaczmarek

**Directors at Large**

- Communications: Mr. Paul Martin
- Programs: Mr. Erik DeVito
- Membership Committee: Ms. Janet Deery

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Thanks in advance.**

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