



INCOSE Chesapeake Chapter

International Council on Systems Engineering

**September
2012**

E-Newsletter

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Dinner/Lecture 19 Sept 2012 (6:00 – 8:00 pm)

Complexity Theory and Systems Engineering



Speaker: Dr. Sarah Sheard; President of Third Millennium Systems

Presentation: Systems news frequently mentions complexity. Systems engineers wonder how complexity theory relates to the increasing complexity of the systems they are being asked to develop. Is complexity theory related to other new concepts such as network-centric systems and swarms? Dr. Sheard posits that systems engineering has always been about complexity, showing how newer sciences of chaos and complexity relate to the kind of complexity encountered in systems engineering practice, textbooks, and standards. As systems development focuses more on systems-of-

systems, standard practices must be extended and changed. Dr. Sheard shows which aspects of complexity are relevant to different kinds systems engineering, and how this should change in the future.

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

Join us for Salad Night: Bistro Steak Salad and Honey Mustard Chicken Wonton Salad Buffet, 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

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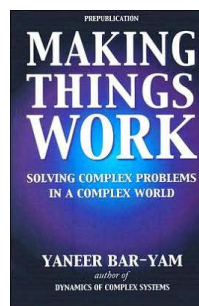
This is the monthly newsletter for INCOSE Chesapeake, a local chapter of INCOSE International. We are a not-for-profit organization dedicated to providing a forum for professionals practicing the art and science of Systems Engineering in the Northern & Central Maryland & Southern Pennsylvania area.



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



Sept. door prize: *Making Things Work: Solving Complex Problems in a Complex World* by Yaneer Bar-Yam

purposes please RSVP via our registration webpage even if you don't plan on joining us for dinner.

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Presidents POV

INCOSE's Servant Leaders



Our Chesapeake Chapter President, Dr. York, shows off the Chapter's latest Gold Circle Award

Well, the summer of 2012 is drawing to a close. I drove my son off to college last week and my daughter has started her sophomore year of high school. Labor Day – a three-day weekend, firing up the grill, pools are closing, one last trip to the beach. While the calendar marks September 22nd as the first day of autumn, for most of us the summer of 2012 is "officially" over. The year 2012 is an important one, an election year but not just an election year, a presidential election year. On November 6th voters will head to the polls to elect among other government leaders, the next President of the United States for a four-year term. As I look ahead to our national election, I cannot help but think about

our upcoming INCOSE Chesapeake Chapter election and the people who serve on our Board of Directors. This year in 2012 we are looking for a President-elect, a Treasurer and our Communications Director. Our President-elect serves a three-year term, one year as President-elect, one year as President and the final year as Past-President. Our Treasurer and Communications Director each serve a two-year term. Please contact me if you are interested in running for one of these positions. All of the members of our Board of Directors are unpaid volunteer positions as are 99% of the positions in the broader International Council on Systems Engineering (INCOSE) organization. Men and women, dedicated to fostering the advancement of world class systems engineering, volunteering countless hours and serving in leadership, mentorship, membership, communications, programs, and fiduciary responsibilities. It is the time, energy and resources of these tireless volunteers who make INCOSE the world class systems engineering organization that it is. We honor you and we salute you! Thank you INCOSE servant leaders! Regards, *Dr. Don York, CC President*, donald.york@incose.org

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Announcements

The
Institute for
Systems
Research



A. JAMES CLARK
SCHOOL OF ENGINEERING

 **clovis**
A Division of Eliassen Group

serco
Bringing service to life


Customer Focused, Employee Driven

 **CyberCore**
TECHNOLOGIES

APL
The Johns Hopkins University

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.

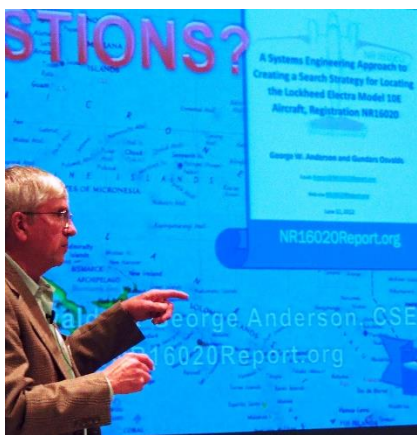
2) [Systems Engineering – Project Management \(SE – PM\) Working Group](#)

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.

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Did You Miss Last Month?

[Systems Engineering and the Amelia Earhart Mystery](#)



Gunders Osvalds explaining the End of Flight Scenario.

Gunders Osvalds and George Anderson co-authored a [comprehensive 107 page report](#) entitled; “*A Systems Engineering Approach to Creating a Search Strategy for Locating the Lockheed Electra Model 10E Aircraft, Registration NR16020.*” The purpose of their paper was to provide a systems engineering analysis and develop a process for locating the remnants of Amelia Earhart's missing Lockheed 10E aircraft. This lecture was Gunders providing a summary of their work. 2012 marks the 75 anniversary of the Earhart disappearance and a great deal of public

interest is focused on her career as well as a recent expedition that hoped to find evidence of the doomed flight.

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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 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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[>>>Read the write-up as well as Gundars' presentation and audio file.>>](#)

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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

**Please use the Forward email link below so we can invite your friends to join our mailing list.
Thanks in advance.**

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