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Chesapeake Chapter
INCOSE
International Council on Systems Engineering

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July 2011 E-Newsletter

Dinner Meeting - Wednesday 20 July 2011

Challenges and Opportunities for Systems Engineering within DoD

Mr. Stephen P. Welby; Deputy Assistant Secretary of Defense for Systems Engineering

Presentation: Mr. Welby will use the context of DoD Systems Engineering to discuss some challenges to the practice and profession of systems engineering - with a focus on 1) How we manage complexity 2) How we identify and manage risk and 3) How we develop future Engineering Leaders.

Speaker: Mr. Stephen P. Welby was appointed the Deputy Assistant Secretary of Defense for Systems Engineering in September 2009. He is the principal systems engineering advisor to the Secretary of Defense and is responsible for establishing and executing engineering policy and oversight across the Department. His responsibilities include pre-acquisition development planning; engineering support to design, development and manufacturing; and independent engineering review, technical risk assessment and engineering analysis across the Department's portfolio of major acquisition programs. He provides functional leadership to more than 40,000 Defense acquisition professionals in the DoD systems planning, research, development, and engineering (SPRDE) and production, quality, and manufacturing (PQM) workforce. Mr Welby also serves as the Defense Standardization Executive.

Location: Applied Physics Laboratory, Johns Hopkins University; 11100 Johns Hopkins Rd Laurel MD 20723 (Main Entrance â€" Lobby 1)

Meal: Chicken breast with mushroom marsala sauce; Wild rice; Steamed Broccoli, served with garden salad, dressing, rolls and butter, dessert, including a small Fruit Plate, coffee, iced tea
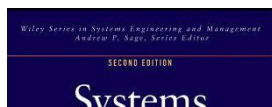
>>Download the Meeting Flyer Here<<

Reservations:
- **By website:** Credit card via PayPal, go to our >>Registration Page<<

Presentation ONLY: FREE (no reservations necessary)

The purpose of the Chesapeake Chapter is to foster the definition, understanding, and practice of world class systems engineering in industry, academia, and

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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.

Join INCOSE Today!
INCOSE
Apply Online Now

The Chesapeake Chapter is always looking for volunteers to speak at our upcoming meetings! Please contact our Programs Director, Mr. Donald York, if you would like the opportunity to speak or can recommend someone.

government. In light of that goal, every month at our dinner meeting we have a drawing for the latest in Systems Engineering literature. So come on out for a chance to win.

July's door prize is:

Systems Engineering Principles and Practice
By Alexander Kossiakoff, William N. Sweet, Sam Seymour, Steven M. Biemer

Get to Know ...

Our new President-Elect:
Mr. Gundars Osvalds

Mr. Gundars Osvalds will be taking over the INCOSE Chesapeake Chapter presidency this coming January 2012. He is a Senior Principal Enterprise Architect at Northrop Grumman where he is responsible for developing processes that support the design of systems that meet the needs of our customers. Mr. Osvalds supports large government transformation programs with systems engineering and architecture tasks, including planning, implementation and reviews of architectural products, and processes for architectural design and modeling. Mr. Osvalds has used and supported the DoDAF and OMB FEA architecture frameworks for the Federal Government and DoD communities. Currently Mr. Osvalds is developing Model Driven Systems Engineering techniques and tools for use in large systems. Mr. Osvalds is a member of the INCOSE team supporting the ISO on enterprise architecture concepts for the next version of ISO 15704 and 42010 (an update of IEEE 1471). He supported the Network Centric Operations Industry Consortium (NCOIC) Interoperability Framework (NIF) Architectural Concepts Functional Team and Working Group in the development of the NIF Reference Manual.

Learn even more about the other Board Members in the About section of our Website.

Announcement

Systems Engineer of the Year (SEY) committe is now accepting nominations

Carol Hutchinson, the chairman of the Evaluation Committee for the chapter's Systems Engineer of the Year (SEY), announced at our last Dinner meeting that the committee is accepting nominations for the SEY. Read about the criteria, due dates,

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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:

Mark your Calendars with these upcoming Chapter events:

Wednesday 17 Aug 2011
Night at the Movies featuring "The Deming of America"
DVD of Priscilla Pettty's Documentary

Get Involved with your Chesapeake Chapter

Join a Committee! Make a Difference!
Be part of the organization that's promoting Systems Engineering across the globe for the benefit of humanity and the planet!

- **Communications**
  Contact: Paul Martin
  We need writers, editors, photographers, website and newsletter maintainers

download the nomination forms and the application itself at the chapter's SEY webpage >>HERE<<.

Previous Recipients

Year	SEY Awardees (Click on name for more info)
2010	Don York
2008	Carol Ann Hutchinson
2007	Stephen Sutton
2006	L. Mark Walker
2005	Jim Chism
2004	John Thomas

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Feature Article

After Report: The 21st INCOSE International Symposium

Dave Fadeley in Denver, enjoying the 2011 INCOSE International Symposium

After being an SE for over 25 years and an INCOSE member for about 5 years, I had the opportunity to attend my first INCOSE International Symposium, the 21st INCOSE Symposium in Denver during 20-24 June. Since I was essentially using my funds for the event, I was determined to get my money's worth, and boy did I! I attended every session and all the social functions - the Icebreaker on Monday evening, the Social on Tuesday evening, and the Banquet on Wednesday evening that featured a John Denver-look alike singing John Denver songs against a Rocky Mountain backdrop.

At the sessions, I asked questions, met new colleauges at Lunch and break times where we shared thoughts and impressions with fellow SEs. I purposely sat with people I did not know in order to meet new people. I sat in many non-DoD type presentations such as Rail and Bio Med in order to see what they were doing, especially how they were tailoring SE for their industry. I visisted the vendor and university booths, gathered pens, literature, water bottles and other marketing tokens (Hey, I've got 5 kids at home!).

My take aways were (1) systems thinking goes beyond systems engineering and is an essential characteristic of an excellent SE to solve non-engineering problems and (2) I wanted to be actively involved in the next symposium I attend e.g. presenter or panelist.

- **Programs**
  Contact: Don York
  We need help in planning, arranging, organizing and executing the various Chapter events to include speaker presentations, tutorials, panel discussions, and the holiday party.

- **Membership**
  Contact: Bhanu Sunkara
  We need help in growing our membership by reaching out into the local SE community.

If any of these activities sound interesting to you please contact the Committee Director to find out how you can get involved.

Local SE Training

Preparing for the Certified Systems Engineering Professional (CSEP) Exam

Obtaining a CSEP is not easy, but that's what makes it so valuable. You have to demonstrate your real world experience via a lengthy application and three references. Then you need to pass a two-hour, 120-question, multiple-choice exam. The courses listed below will help prepare potential candidates for this demanding process by becoming familiar with the INCOSE SE Handbook version 3.2 which is the basis for the examination.

UMBC Training Centers

UMBC
Training Centers
offer an on-line
CSEP Prep Course
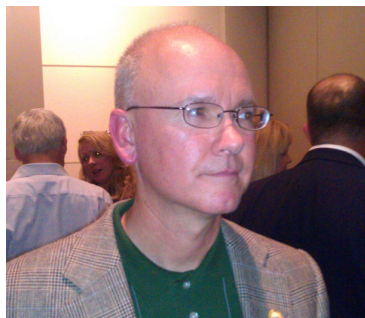Dates: 4 Saturday Mornings,
August 6 – August 27, 2011

>>Register Here<<

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Discover *Systems Engineering*

Overall, it was well worth it, and am looking forward to following up on some thoughts started there.....and thinking about the next one....I've always loved Italian food!

~~ Dave Fadeley, ESEP

Paul Martin at the UMBC Training Center Booth at the 2011 INCOSE International Symposium

It was exciting to go back to the INCOSE International Symposium after an 11 year absence. In 2000 we met in the Brew City of Milwaukee, this year it was the Mile High City of Denver. 600 registrants from 20 countries descended on the Denver Convention Center to hear speakers from Japan discuss rebuilding the country after the great earthquake/tsunami; from Rolls-Royce and its mission to be the world's premiere power systems provider; and from the Global Earth Observation System of Systems where the integration of countless satellites and measurement platforms that will help us understand the earth better.

It was great to be immersed in all things Systems Engineering for 4 days. From the challenges of Complexity to the difficulties of creating a Graduate Reference Curriculum to Advance Systems Engineering, the speakers brought theory and practicality into the same venue.

One of the more memorable events was hearing the 2012 INCOSE President, John Thomas, discuss the importance of being a "credentialed" Systems Engineer during the Certification reception on Tuesday night. He waxed eloquently about the higher purposes of Systems Engineers as we bring solutions to global scale problems, making a better society.

I really enjoyed it all and it was topped off with a fantastic banquet as our chapter received a Gold Circle award and the Most Improved Performance award. I was proud to be part of helping make that possible and it's even better to be part of such a honorable profession.

Dave Fadeley is right, next year let's go to Rome and get another Gold Circle Award.

~~ Paul Martin, CSEP

Chesapeake's President-Elect Gundars Osvalds receive's the 2010 Gold Circle Award from the INCOSE president, Samantha Robitaille, at the 2011 INCOSE International Symposium

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Did You Miss Last Month?

Read the current issue free on-line for a limited time:

Click Here

As a member of INCOSE you have online Access to the current and past issues of The Journal of Systems Engineering via the Wiley InterScience site. Search the archives and download papers of interest. Registration on the Wiley site is required. Instructions for accessing the SE Journal can be found in INCOSE Connect

With Connect you can also download the April 2011 Issue of INSIGHT *Special Feature on Knowledge Management*

Clink on image above and Log-In today.

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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.
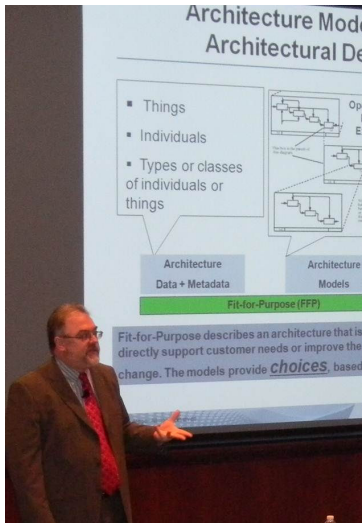
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Welcome to our Newest Chapter Members

- Kent Malwitz *UMBC Training Centers*
- Janis C Sekera *AAI Corporation*
- Eric C Kumar
- Takeru Tak Igusa *Johns Hopkins University*
- Alan J Jeffries *Jeffries Technology Solutions, Inc.*
- Nicholas Di Liberto *Northrop Grumman*
- Brett Shank *Northrop Grumman Corporation*
- Richard D Avila *Raytheon Applied Signal Technology*

Systems Engineering & the Unified Profile for DoDAF and MODAF (UPDM)

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

Matthew Hause started his talk as he explained how all models are meant to answer questions but the challenge is the "abstraction problem." DoD, as well as the UK Ministry of Defense (MoD), wanted to move away from "PowerPoint" architecture and wanted to start using models with real data behind the "pretty pictures." Looking to INCOSE and the Object Management Group (OMG) to help solve this problem, an initiative was started to provide a consistent, standardized means to describe architectures in SysML/UML-based tools as well as a standard for interchange. Thus the concept for a Unified Profile for DoDAF and MODAF, or UPDM, was born. Mr. Hause went on to explain the details of UPDM such as parametrics, blocks, complex ports, enhanced activity modeling, and cross-cutting constructs. He also went into a detail example of a Yacht in Distress.

**Download Mr. Hause's presentation
>> HERE<<**

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, John Lewis or our Communications Officer, Paul Martin. We value your feedback.

Board of Director Officers, 2011
- President: Mr. John Lewis
- Past President: Mr. George Anderson
- President Elect: Gundars Osvald
- Treasurer: Mr. Glenn Gillaspy
- Secretary: Mr. Bob Berkovits

Directors at Large
- Communications: Mr. Paul Martin
- Programs: Mr. Donald York
- Membership Committee: Ms. Bhanumati Sunkara

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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