



# SE REVIEW



August/Sept. 2009

Volume 9, Number 8



### Next Board Meeting

8 October 2009  
1700

Booz Allen Hamilton  
Expedition Bldg

### Next Chapter Meetings

M&S in the  
Development  
of the CVN-78  
23 September 2009  
1130-1300  
Pax River O'Club

### Technical Leadership & the Role of the Systems Engineer for Program Success, Mr.

John A. Thomas  
22 October 2009  
1130-1300  
Pax River O'Club

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## President's Perspective

Colleagues,

We are coming into the fall schedule and resume our luncheon programming activities with a vengeance. There is still time to sign-up for our program this Wednesday, 23 September, entitled **Modeling and Simulation in the Development of the CVN-78 Gerald R. Ford Class Aircraft Carrier**. Provided by Mr. Tony Kimberlin from the 4.10 Warfare Analysis Department, this will be at the Officers' Club at Pax River and will be \$8.00 for members and \$10 for non-members. Please respond to [Andrew.Pollard@INCOSE.org](mailto:Andrew.Pollard@INCOSE.org) to attend!

Next month, we will have **Technical Leadership & the Role of the Systems Engineer for Program Success**, Mr. John A. Thomas, 22 October at Cedar Point Officer's Club. This promises to be a very engaging discussion, and Mr. Thomas is a candidate for the President of INCOSE International in 2010. This will also be at the Officers' Club at Pax River and will be \$8.00 for members and \$10 for non-members. Please respond to [Steve.McKeown@INCOSE.org](mailto:Steve.McKeown@INCOSE.org) to attend!

Now is also the time to give some consideration for stepping into a leadership role with our local INCOSE Chapter. We will be getting details out shortly regarding the election of a new Board or Directors for our Chapter which takes place in January 2010. We are interested in fresh ideas, and this is a great way to influence positive change within our Chapter and start to shape the direction for this organization. There will be a number of committees in need of participants as well as a couple of Board vacancies that will need to be filled. Feel free to contact me with any questions that you have, and thanks for your continued support!

Respectfully,

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

# INCOSE News

## INCOSE cited as authoritative source

A recently published article by Michael C Jackson cites INCOSE. Article published with author permission in a book of 'Keynote Papers' for the York 2008 OR Society Conference. Final later version in a paper in JORS.

[Fifty years of systems thinking for management by Michael C Jackson](#)

## Call for Nominations

The INCOSE Nominations & Elections Committee is pleased to announce the candidates for INCOSE President Elect for 2010. They are Bill Mackey, Art Pyster, and John Thomas.

## IS 2010 Important Dates and Call For Papers Now Online

Please visit <http://www.incose.org/symp2010> to learn more about the upcoming symposium next year in Chicago.

Starting in 2010, the Annual INCOSE International Symposium will be branded under a new logo. The Planning Committee is anticipating a record turnout as INCOSE celebrates 20 years since the first event.

## Dues Renewal Reminder

Please renew online or send a check to the INCOSE office. If you pay through your bank, make sure they have the new address. If you have not yet renewed, please do so today to participate in the full range of INCOSE benefits and activities. If you have not received an email reminder or have questions regarding the renewal process, call INCOSE Central - 1-800-366-1164 or email [info@incose.org](mailto:info@incose.org).

## Schedule of *INSIGHT* Deadlines

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

SUBMISSION DATE	PUBLICATION DATE	THEME	THEME EDITOR
15 October 2009	4th Qtr 2009	Model-Based Systems Engineering: The New Paradigm	Rob Cloutier
15 February 2010	1st Qtr 2010	Technical Operations	Timothy Dilks
8 August 2010	3rd Qtr 2010	2010 International Symposium Coverage: Chicago, Illinois, USA	Jack Stein

## 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!*

### **Chapter Member Receives 2009 INCOSE Foundation/Applied Physics Laboratory Alexander Kossiakoff Systems Engineering Scholarship**

The recipient of this year's \$5,000 INCOSE Foundation/Applied Physics Laboratory Alexander Kossiakoff Systems Engineering Scholarship is Mr. Andrew Pollard, who is enrolled in the Master of Science in Systems Engineering Program at the Johns Hopkins University. His research interests include:

- **Conceptual or detailed design work for civil spacecraft missions** to further space exploration, understand the solar system and its resources, and enable future manned missions. Focused research would support the development of a detailed design of a mission system, including integration of the sensor package. A broader approach would support the conceptual design of more complex missions.
- **Ocean systems research and development (undersea warfare)** in support of the U.S. Navy's "Sea Power 21" goals. A vision for naval warfare in the 21<sup>st</sup> century, "Sea Power 21" was introduced in 2002 by Admiral Vern Clark, the Chief of Naval Operations at the time.

Andrew is an Assistant Program Manager for Systems Engineering for the International H-60 "Seahawk" program at Naval Air Systems Command (NAVAIR). He received his B.S. in Aerospace Engineering from Virginia Polytechnic Institute and State University in 2001. He began working for NAVAIR in 2002 as an aerospace engineer. Since then, he has assessed readiness for the X-47B Naval Unmanned Combat Aerial System Demonstrator (NUCAS-D) system-level Critical Design Review. He is the Southern Maryland Chapter Treasurer.

Congratulations, Andrew!!

### **Blue Crabs Double-Header Chapter Event Another Success**

On Saturday, September 12<sup>th</sup> at 4:00 PM, the Southern Maryland Chapter of INCOSE staged a "members and family" event at Regency Furniture Stadium in Waldorf, MD, home of the Blue Crabs Independent Baseball League Team. Eight INCOSE members and their families signed-up for this all-you-can-eat picnic and baseball game event. Several attendees dressed in pink in honor of it being Breast Cancer Awareness Night. The Stadium's Red Hot & Blue Picnic Pavilion was the perfect place to enjoy the marvelous two-hour all-you-can-eat buffet, watch the game, and mingle with the other attendees. The Southern Maryland Blue Crabs took on last year's league champions the Somerset Patriots managed by Cy Young Award winner and former New York Yankee Sparky Lyle. The Blue Crabs prevailed in the first game (8-5) but lost the second (2-3). A wonderful fireworks display capped off the evening.

Thank you Karl for arranging another wonderful Chapter event!

## *Member Profiles*

Please welcome our new members:

**William Stack** joined on 31 July. He is a Chief Engineer with NAVAIR. His e-mail is [william.stack@navy.mil](mailto:william.stack@navy.mil), and phone number is (301) 995-8469.

**Karen Metz** joined on 1 August. She is a System Engineer with JHU/APL. Her e-mail is [karenmetz@verizon.net](mailto:karenmetz@verizon.net), and phone number is (240) 228-0381.

## Chapter Highlights (cont.)

**Nicholas Rygiel** joined on 26 August. His position is New Platform Acquisition Training with United States Navy - Center for Surface Combat Systems (CSCS). His e-mail is [nicholas.rygiel@navy.mil](mailto:nicholas.rygiel@navy.mil), and phone number is (540) 284-1235.

**Barry Knouse** joined on 4 September. He is VP/GM with L-3. His e-mail is [barry.knouse@L-3com.com](mailto:barry.knouse@L-3com.com), and phone number is (240) 895-7442.

**Trisha Radocaj** joined on 21 September. She is an Associate with Booz Allen Hamilton. Her e-mail is [radocaj\\_trisha@bah.com](mailto:radocaj_trisha@bah.com), and phone number is (301) 862-7090.

## 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:** 23 September 2009, 1130-1300

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

**Theme:** Modeling and Simulation in the Development of the CVN-78 Gerald R. Ford Class Aircraft Carrier

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

**Speaker:** Mr. Tony Kimberlin, Warfare Analysis and Integration Department

**POCs:** Andrew Pollard at 301-995-2880, [Andrew.pollard@incose-somd.org](mailto:Andrew.pollard@incose-somd.org) or Steve McKeown at 301-862-7033, [Steve.McKeown@INCOSE-SoMD.org](mailto:Steve.McKeown@INCOSE-SoMD.org)

**Venue:** Pizza and beverages for all attendees

**Cost:** Buffet Lunch

**Description:** This brief will focus on the M&S analysis efforts and how they provide the Future Carriers Program Office (PMS-378) with valuable analysis and life cycle acquisition cost savings.

### Fundamentals of Systems Engineering

*Presented by Honourcode, Inc.*

**When:** 5-6 October 2009

**Where:** Laurel, Maryland

**Info:** <http://www.hcode.com/crsinfo-fse.htm>

**Cost:** \$990

**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.

## Upcoming Events (cont.)

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.

### Southern Maryland SPIN Chapter Meeting

*Hosted by SoMD SPIN Chapter*

**When:** 7 October 2009, 1700-1900

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

**Theme:** Lessons learned in motivating Software Engineering Process Group to focus on achieving business goals, and not on just achieving a maturity level

**Speaker:** Girish Seshagiri, Advanced Information Services Inc. (AIS)

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

**POC:** Josh Considine at [Joshua.Considine@ManTech.com](mailto:Joshua.Considine@ManTech.com)

**Venue:** Food and Refreshments

**Cost:** Free

**Description:** This presentation will share a real life example of the combined use of Goal/ Questions/Metrics (GQM) and Balanced Scorecard (BSC) to link Software Process Improvement (SPI) goals with business objectives. It will describe motivating the organization's Software Engineering Process Group (SEPG) to focus on achieving business goals and not just achieving a maturity level.

This presentation will demonstrate a practical way to implement the systematic collection and reporting of "vital few" project and organization data concerning profitability of projects, employee morale/satisfaction, and customer feedback for quality, value, and timeliness of services rendered. We also discuss the challenges we face in connecting top level business objectives for revenue, earnings before interest and taxes (EBIT), and new products and services innovation to SPI goals.

### INCOSE Region IV Conference

*Hosted by INCOSE Cleveland-Northern Ohio Chapter*

*Supported by INCOSE Michigan and Finger Lakes Chapters, and the Cleveland Engineering Society*

**When:** 25-26 October 2009

**Where:** Ohio Aerospace Institute, Cleveland, OH

**Theme:** Autumn '09: Using the POWER of Applied Systems Methods

**Info:** <http://www.incose.org/cleveland/RS09/RS09main.htm>

**POC:** John Juhasz, [john.juhasz@incose.org](mailto:john.juhasz@incose.org), (440) 241-2830

**Description:** The conference provides a renewed focus on the application of advanced methods and tools applied by modern Systems Engineering to the analysis and solutions of complex problems for intelligent decision making. Specific focus in this conference will be on Applied Systems Methods for Energy and Power Systems of the future.

Along with the increasing complexity of the problems confronting our civilization, system complexity has dramatically increased over the last several decades. It is therefore even more important today to deploy advanced methods and improved processes to effectively track life-cycle costs, calculate risk and complexity, and leverage best solutions and techniques. The conference will include papers, tool presentations, and methods discussions.

### Architecting with DODAF

*Presented by Honourcode, Inc.*

**When:** 10-11 November 2009

**Where:** Laurel, Maryland

**Info:** <http://www.hcode.com/crsinfo-archdodaf.htm>

**Cost:** \$990

**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 DOD Architecture Framework (DODAF) provides an underlying structure to work with complexity.

## Upcoming Events (cont.)

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.

### Hampton Roads Area Conference

*Hosted by Hampton Roads Area (HRA) INCOSE chapter and the Hampton Roads Society of Cost Estimating and Analysis (SCEA) chapter*

**When:** 17-18 November 2009

**Where:** Omni Hotel in Newport News, Virginia

**Theme:** Decision Analysis and Its Application to Systems Engineering

**Info:** [http://www.incose.org/hra/decision\\_analysis\\_conf2009/da2009\\_index.htm](http://www.incose.org/hra/decision_analysis_conf2009/da2009_index.htm)

**POC:** Kelly Moses, [moses\\_kelly@bah.com](mailto:moses_kelly@bah.com)

**Description:** The target audience is anyone who wants to learn more about decision analysis - engineers, analysts, managers, professors, and students are welcome.

There will be a best paper competition as well as a student poster presentation competition. Conference topics include:

Decision Analysis

Decision Management

Decision Tools

Decisions & Systems Engineering

### 2010 INCOSE International Workshop

**When:** 7-10 February 2010

**Where:** Phoenix Marriott Mesa, Phoenix, Arizona

**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.

### 8th Annual Conference on SE Research

*Hosted by Stevens Institute of Technology and Delft University of Technology in collaboration with University of Southern California (USC)*

**When:** 17-19 March 2010

**Where:** Stevens Institute of Technology Campus, Hoboken, New Jersey

**Info:** <http://sse.stevens.edu/research/sponsored-conferences/cser/2010/home/>

**POC:** Dr. Brian Sauser, [Brian.Sauser@stevens.edu](mailto:Brian.Sauser@stevens.edu)

**Description:** The objective of this conference is to provide practitioners and researchers in academia, industry, and government with a common platform to present, discuss and influence Systems Engineering research, and to enhance the practice of Systems Engineering and Systems Engineering education.

### 7th European Systems Engineering Conference (EuSEC 2010)

*Hosted by Swedish Chapter of INCOSE and INCOSE Region III Chapters*

**When:** 23-26 May 2010

**Where:** [Royal Institute of Technology](http://www.kth.se) (KTH), Stockholm, Sweden

**Theme:** Systems Engineering and Innovation

**Info:** <http://www.incose.se/eusec2010/>

**POC:** Jonas Andersson

**Description:** The 7th bi-annual EuSEC aims to bring practitioners and researchers together to discuss systems engineering and innovation. It is designed to inspire its attendees by providing practitioners with insights from systems engineering research and practice, and researchers with an exposure to real-world challenges and examples. Following the successful tradition of EuSEC, we will provide its participants 2010 with a plethora of enlightening technical papers and tutorials, panel discussions, and exciting speeches, but also with an infrastructure for successful business and working group meetings, all in the inspiring environment of Stockholm, the "Capital of Scandinavia". Participants should leave the conference with a unique understanding of the challenges of handling innovation in Systems Engineering, the research and solutions currently available, as well as future solutions and pointers to research directions in the area.

## Upcoming Events (cont.)

We warmly welcome you, your colleagues and everyone you bring along, to a thrilling event in the beautiful Nordic spring in Stockholm!

### 2010 INCOSE International Symposium

*The 20th International Symposium -- Hosted by Region IV Chapters*

**When:** 12-15 July 2010

**Where:** Hyatt Regency O'Hare, Chicago, Illinois

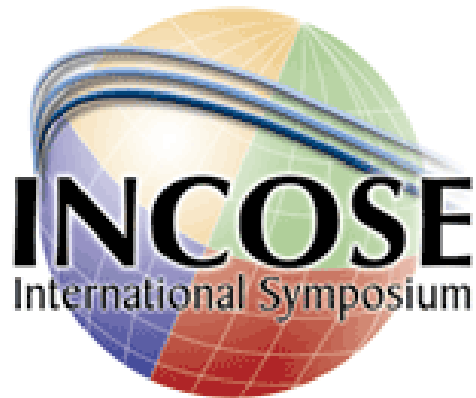
**Theme:** 20<sup>th</sup> Anniversary

**Info:** <http://www.incose.org/symp2010>

**POC:** INCOSE Central Office, [info@incose.org](mailto:info@incose.org), 800-366-1164

**Description:** The 2010 technical program is shaping up to be one of the most, if not the most, exciting and progressive ever. INCOSE and systems engineering stand at the gateway of the new millennium, ready to bring the world into the Systems Age that is upon us.

Our wonderful civilization is at a turning point that will require ever more systems thinking and well-guided application of systems engineering principles. Smart grids, alternative energy, medical systems interoperability, integrated military systems of systems, intelligent transportation systems, integrated mass transit, aerotropolis cities, colonization of space! These are just a few of the undertakings that are just around the corner. They are complex; and they must be engineered for success. We are here, and we are ready!



New INCOSE logo

## SoMD *BOARD OF DIRECTORS*

President .....	Steve McKeown (301) 862-7033 <a href="mailto:mckeown_steve@bah.com">mckeown_steve@bah.com</a>
Vice-President/President-Elect .....	Vacant
Treasurer .....	Andrew Pollard (301) 757-7646 <a href="mailto:andrew.m.pollard@navy.mil">andrew.m.pollard@navy.mil</a>
Secretary .....	Judy Walker (301) 342-2164 <a href="mailto:judy.walker@navy.mil">judy.walker@navy.mil</a>
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Director, Special Events Coordinator .....	Karl Geist (301) 475-5646 <a href="mailto:kgeist@md.metrocast.net">kgeist@md.metrocast.net</a>
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Web Site .....	<a href="http://www.incose-somd.org">www.incose-somd.org</a>

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SoMD  
Current  
*Board of  
Directors!*