



# SE REVIEW



June 2008

Volume 10, Number 3

## President's Perspective



**Next Board Meeting**  
10 July 2008  
1100 – 1300  
Building 2187  
Room 3150

**Next Chapter Meeting**  
TBD June 2008  
1100 – 1300  
Officer's Club

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Greetings from Utrecht, The Netherlands. Since I have no picture to send (more on that later), I need to describe it to you. First, there are bicycles everywhere; there are more bikes parked next to the convention center than cars. The narrow streets in this old city all have bike lanes. In fact, some roads are only used by bikes and pedestrians. Next there are the busses. They are the big double flexi kind. They have their own lanes also so they can speed their way through their routes. There is little space left over for cars and motorcycles, so most of the cars you see, mine included, are small. This is good since there is little parking. There are digital signs all around town that tell how many vacant parking spots are available in the few parking garages. On top of all this, there are the trains and canals. There are many cars and bus, bike, and pedestrian tunnels going under the train right-of-way. This is good since there are trains running all the time; and otherwise, one or the other wouldn't get anywhere. The old gothic canals are very romantic with the cafés lining the sides and boats from kayaks to gondolas traveling their length. There are bridges across the canals but too few to make any direct paths possible. Lastly, there are the traffic signs. If you have time, check out the PDF at [http://www.verkeerenwaterstaat.nl/Images/RVV\\_UK-versie\\_tcm195-163061.pdf](http://www.verkeerenwaterstaat.nl/Images/RVV_UK-versie_tcm195-163061.pdf). On page 35, you will find the list of symbolic road signs here in The Netherlands. They are everywhere as you can imagine given the complex transportation system I have described. For me, the local language is almost pronounceable but completely un-understandable. This makes the street signs useless for me. I had to walk about a kilometer with the route drawn on a map, and I got completely lost. I had to flag down a police car to get my bearings. In summary, the level of complexity of the mobility system here in Utrecht is intellectuality fascinating but total frustrating to me.

Our INCOSE International Symposium is going strong. Southern Maryland is represented by Ken Ptack, Jennifer Narkevicius, and I. Ken was first up on Monday chairing a Systems Engineering Process track in the beautiful, well-appointed and comfortable Beatrix Theater. My Presentation on the Technology Readiness Assessment was yesterday, was attended by 60 to 70, and was well received, although I did speak too quickly for an international audience. I'll have to work on that. Jennifer is up tomorrow with her tutorial. Southern Maryland Chapter is being recognized at the conference, too. Karl Geist received special recognition for his work on the new CSEP exam, and our Chapter received a Gold Chapter Circle Award.

In addition to the technical papers presentations I have attended, I have worked and presented in many INCOSE leadership meetings: the Member Board, Region V, Fellows, and Region VI. I have gathered quite a bit of information to bring back from them and have been politicking for an INCOSE International Science and Engineering Fair (ISEF) award. I have been somewhat successful. However, it can go either way with the sad luck I been having since last night, but I hope to get a signed ISEF application form tomorrow and application fee tomorrow.

The sad luck has nothing to do with the ISEF award but to why I don't have any pictures to send back. Last night at about 6PM, I went to my car and locked my camera hidden into it and left to get some food to take back to the hotel. I was gone about 45 minutes, and when I came back, the back window was smashed, the cover torn up, and the camera bag gone. I knew right away it was going to be a long night. Well about 1 AM, I was gratefully back in my room eating cold Chinese food. Everything that could go wrong did, but I was blessed enough to get through the ordeal. First the parking garage attendant didn't speak my language, so it was difficult to make him understand what had happened. Later after we searched the likely exits for a discarded camera case, he told me he wouldn't call the police because they wouldn't come for this crime. He

gestured directions on how to walk to the police station. I confess I didn't believe him nor could I follow such directions, so I went to the adjoining hotel and asked the receptionist. True, the police will not come, and I would have to walk. I did receive a map with the route drawn on it and a promise to help with a call to the rental car company when I got back. That was the walk I spoke of earlier where I got completely lost. It turns out I took the wrong railroad underpass. You might well think, why not take a cab. Well, it didn't look far, and I was getting beat up with the dollar-to-euro exchange rate all week. Last night was a big football match in which Netherlands was playing. So by the time I was ready to pay any price, there were no cabs, and all the people were home or packed into the pubs. At the police station, the nice lady that had drawn the short straw to run the station during the game had a little more understanding of my language than I did of hers. At one point, I was typing on her computer for her. With her directions and some common sense instead of a map, I made my way back to the hotel receptionist for help with the call to the rental car company. The rental car company wanted me to make an appointment with an auto glass merchant and get the car fixed. I suggested that I take the car back to the airport and get a new one. Yes, that would be alright; they are open 24 hours.

I have a Tom Tom, a talking GPS to help me get around, but last night it wanted me to go places I couldn't. It was a bit sketchy about which road I was on. I got to the airport at exactly 11:00, and that is exactly when the rental car counter closed. So by the skin of my teeth, I got a new car and left Amsterdam for Utrecht, fighting with Tom Tom all the way. At one point, I went down a one-way street to a closed exit street and had to find an alternate exit through a parking lot. After one last problem with my hotel's parking lot, boom, I finally made it back to my room and gratefully eating the cold dinner.

I'll say goodbye now from Utrecht. I wish everyone a much better birthday than I had.

Respectfully,  
John Walker  
President, Southern Maryland Chapter  
[president@INCOSE-SoMD.org](mailto:president@INCOSE-SoMD.org)

## INCOSE *News*

### Chapter Awards

The Southern Maryland Chapter has been awarded the Gold Circle Award for the 7<sup>th</sup> straight year. We are the only chapter to achieve that award every year since the award's inception. Our president will be accepting the award on the Chapter's behalf at the International Symposium in the Netherlands. The award will be displayed in the lobby of Building 2185.

### 2008 International Workshop Presentations are in the Event Archive

Well done to all who participated in the 2008 International Workshop in Albuquerque, New Mexico. The opening plenary and closing plenary and a few other presentations have been uploaded into the [Event Archive](#) in INCOSE Connect. They are worth looking at if you want to know what activities are happening in INCOSE. If anyone would like to share any other presentations or work products from the IW, please send them to the webmaster; we will upload them as well.

### Basis for INCOSE Certification Exam in July 2008

In July 2008, the INCOSE certification examination will be based solely upon version 3.1 of the INCOSE SE Handbook. If you are planning to take your certification exams after July 1, 2008, you should prepare with version 3.1, which is available in both electronic download and bound paperback. For details, see the INCOSE Store <http://www.incose.org/ProductsPubs/incosestore.aspx>.



### Renew Your Membership

Don't forget to renew your membership. Your annual membership now expires 12 months after your enrollment anniversary. This may not change for most members, since your current membership year expires at the end of June, the same time as last year. For some members and all new members, this could mean that your membership may not expire at the end of June. 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>).

### INCOSE Discussion Forum

There are some who feel that the biggest obstacle to maturing Systems Engineering as a discipline, art, profession, or subject is that it lacks a common lexicon. Is there or can there be a base set of terminology for discussing Systems Engineering? Or is the causality of this reversed? Maybe a consistent lexicon is the result of a mature field of study. Please tell us what you think in the discussion forum. Tell us what you think in the Discussion Forum <http://www.incose.org/forum/index.cfm?page=topic&topicID=135>.

### Schedule of *INSIGHT* Deadlines

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

SUBMISSION DATE	PUBLICATION DATE	THEME	THEME EDITOR
3 July 2008*	September 2008	Systems Engineering for the Planet - IS 2008 Highlights	Cecilia Haskins
15 October 2008	December 2008	Space Systems: Navigating Complexity to Explore the Unknown	Jim Andary <a href="mailto:James.F.Andary@nasa.gov?subject=INSIGHT%20Volume%2012%20Number%201">James.F.Andary@nasa.gov?subject=INSIGHT%20Volume%2012%20Number%201</a>
15 February 2009	April 2009	Cognition: Pursuing the Next Level in System Performance	Steve Deal
15 May 2009	July 2009	The Interplay of Architecture, Systems Engineering, and Security	Rick Dove
13 August 2009*	October 2009	East Meets West - The Human Dimension to Systems Engineering	Leo Tin Boom (TBR)
15 October 2009	December 2009	Model-Based Systems Engineering: The New Paradigm	Rob Cloutier

\*early submission date

### INCOSE Certification Online Tutorial

The INCOSE Hampton Roads Area (HRA) Chapter and Northrop Grumman are hosting an online tutorial providing an overview of the INCOSE SE Handbook V3.1 to prepare for the SE certification exam. Taught by John Clark, HRA Director of Education & Training and Northrop Grumman Mission Systems Chief Engineer, the tutorial will cover the Certified Systems Engineering Professional (CSEP) process and the sections and appendices of the SE Handbook, Version 3.1 (the basis for the certification exam beginning July 2008).

The tutorial consists of 12 weekly sessions, Fridays from 1200-1330 ET. Prior to each session, participants are encouraged to read the sections and appendices of the Handbook to be presented. The course overview including the session, date, section/appendix, and topic will be published at a later date. Course materials include the tutorial slides (including Notes), sample questions, and prior-session audio. The infrastructure will support up to 250 participants.

Registration is not required for Northrop Grumman employees. They can access the course at no cost via either their Sametime Server or their training course directory at <\\rsmv48-eprocess\epi\Training\Course-Data>. Registration is required for INCOSE Corporate Advisory Board (CAB) member company employees. They can register at no cost by emailing their name, company name, email address, phone number, and INCOSE Connect firstname.lastname to [kelly.moses@incose.org](mailto:kelly.moses@incose.org) to obtain the course access information. Registration is required for INCOSE non-CAB member participants and includes a minimal fee of \$100 per registrant to cover INCOSE expenses. This registration will be handled on a first-come, first-served basis using an online registration site to obtain the course access information.

Please note, you must be either a Northrop Grumman employee or a member of INCOSE to participate in the tutorial. Contact [john.clark@incose.org](mailto:john.clark@incose.org) or [kelly.moses@incose.org](mailto:kelly.moses@incose.org) for additional details.

### **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.

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## Chapter *Highlights*

### Chapter Member *Elected*

The members of the INCOSE Human Systems Integration Working Group (HSIWG) recently elected **Dr. Jen Narkevicius** of the Southern Maryland Chapter to be the incoming Co-Chair. Jen will assume the duties of Co-Chair as of the Opening Plenary Session of the upcoming INCOSE Symposium, 16 June 2008. She will take over from Mr. Steve Deal who has provided incredible leadership, foresight, and insight in founding the HSIWG and setting HSIWG on a course for success. Jen will serve with Co-Chair Michael Mueller.

At the conclusion of its second year, the HSIWG has taken a huge step toward a solid, productive future. We look forward to the coming year. HSIWG is working closely with the Model Based Systems Engineering (MBSE) WG and the Requirements WG. We have accomplished much, but we still have a lot more to do to achieve our vision of: "Human Systems Integration embedded in systems engineering practices, leading to the efficient delivery of effective systems."

### Member *Profile*

Time to catch up with our new members from 2007. Next month, we will welcome our new 2008 members.

**Joseph Amsden** joined on 30 July. He is the President of TMA, Inc. His e-mail is [joe.amsden@verizon.net](mailto:joe.amsden@verizon.net), and phone number is 301-812-1733.

**Timothy Baker** joined on 23 December. He is the Deputy Program Manager for SLAM-ER/Harpoon at NAVAIR. His e-mail is [timothy.h.baker@navy.mil](mailto:timothy.h.baker@navy.mil), and phone number is 301-481-9158.

## Chapter Highlights (cont.)

**Matthew Dodge** joined on 19 September. He is an Associate with Booz Allen Hamilton. His e-mail is [dodge\\_mathew@bah.com](mailto:dodge_mathew@bah.com), and phone number is 301-866-6929.

**John Egnaczyk** joined on 09 October. He is a Principal Engineer with ASEC Incorporated. His e-mail is [jegnaczyk@verizon.net](mailto:jegnaczyk@verizon.net), and phone number is 301-862-1732.

**Matthew Hammond** joined on 10 August. He is a Program IPT Lead at NAVAIR. His e-mail is [matthew.n.hammond@navy.mil](mailto:matthew.n.hammond@navy.mil), and phone number is 301-757-7908.

**Bryan Herdlick** joined on 21 December. He is a Systems Engineer with Johns Hopkins University/Applied Physics Laboratory. His e-mail is [bryan.herdlick@jhuapl.edu](mailto:bryan.herdlick@jhuapl.edu), and phone number is 240-228-0556.

**Mark Kallio** joined on 25 October. He is a Software Lead. His e-mail is [rockw40@yahoo.com](mailto:rockw40@yahoo.com), and phone number is 301-866-4327.

**Dwight Morgan** joined on 30 August. He is a Chief Engineering and Technology Officer with Eagan, McAllister Associates, Inc. His e-mail is [Dwight\\_Morgan@emainc.com](mailto:Dwight_Morgan@emainc.com), and phone number is 301-863-2192.

**Michael Nash** joined on 26 December. He is an Associate with Booz Allen Hamilton. His e-mail is [nash\\_michael@bah.com](mailto:nash_michael@bah.com), and phone number is 301-866-6942.

**Andrew Pollard** joined on 12 October. He is an Aerospace Engineer/Air Vehicle Systems Engineer at NAVAIR. His e-mail is [Andrew.M.Pollard@navy.mil](mailto:Andrew.M.Pollard@navy.mil), and phone number is 301-342-5422.

**Jeffry Sandler** joined on 2 October. He is a Senior Mechanical Engineer at Science Application International Corp. His e-mail is [sandlerj@saic.com](mailto:sandlerj@saic.com), and phone number is 443-456-7502.

**David Stinson** joined on 26 December. He is a Director, Communications with L-3. His e-mail is [david.stinson@l-3com.com](mailto:david.stinson@l-3com.com), and phone number is 443-624-5720.

**Paul Wainwright** joined on 23 March. He is a Senior Systems Engineer with ManTech Systems Engineering Corp. His e-mail is [paul.wainwright@comcast.net](mailto:paul.wainwright@comcast.net), and phone number is 301-872-9339.

## Outreach: *Feature Story!*

Our Chapter once again provided volunteers for the 2008 Sixth Annual Student Unmanned Air Systems (UAS) Competition to support registration, reception (sponsored by the Chapter), and three-day competition. Thanks to Joe "Just Joe" Brennan (head honcho), Karl Geist (volunteer coordinator), Dawn Jaeger (registration coordinator), Chuck Pedriani, Zig Rafalik, Judy Walker, Dale Raney, and Steve McKeown. The competition was held at Webster Field Annex, St. Inigoes on 18-21 June. The competition was aimed at stimulating and fostering interest in this innovative technology and encouraging careers in the field. It challenged the students to design, fabricate, and demonstrate a system capable of completing a specific and independent aerial operation. The competition events began Wednesday evening with indoctrination. Thursday, students gave oral presentations with static displays to the judges. Teams were also judged on technical papers submitted two weeks before the competition. They had an opportunity for practice flights at Webster Field, but not before passing a system safety inspection. The object for the flying portion of the competition was for an unmanned, radio controllable, aircraft to be launched and transition, or continue, to autonomous flight. It was then to navigate a specified course and use onboard payload sensors to locate and assess a series of man-made targets before returning to the launch point for landing. Each team was required to complete the task within 40 minutes. The event concluded with an awards banquet Saturday evening at St. Mary's College.



## Chapter Highlights (cont.)

This year, the association awarded \$45,000 in prize money. Prizes were awarded for various efforts to include the technical paper, oral brief, mission performance, and safety.

15 colleges and universities from around the world participated this year, with 13 flyers.

They were:

California State University Northridge (observers), Embry Riddle Aeronautical University (Blackbird and Soar teams), Mississippi State University, North Carolina State University, Oakland University, University de Sherbrooke, University of Alberta, University of California at Los Angeles (UCLA), University of California at San Diego (UCSD), University of Manitoba, University of Texas at Arlington, University of West Florida, Utah State University, and Virginia Commonwealth University (plane crashed prior to competition).

The overall winners were:

1st – Mississippi State University

2nd – Utah State University

3rd – University of Texas at Arlington

4th – University of West Florida

More information on the competition can be found at the website:

<http://www.navair.navy.mil/pma263/seafarers/default.htm>.

## 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 Officers or BOD members found in the Chapter's monthly SE Review newsletter. Thank you!

## Upcoming Events

### Southern Maryland Chapter March Meeting

*Hosted by INCOSE SoMD Chapter in Patuxent River, Maryland*

**When:** TBD June 2008, 1115-1245

**Where:** NAS Patuxent Rivers Officers' Club, Patuxent River, MD

**Theme:** TBD

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

**Speaker:** TBD

**POCs:** Steve McKeown, (301) 862-7033, Karl Geist, (301) 475-5646 or Ted Warren, (301) 757-1825

**Venue:** Buffet

**Cost:** \$5.00 for SoMD INCOSE Chapter members, \$8.00 for Non-members

## Upcoming Events (cont.)

Information on  
Working Groups  
can be found at the  
INCOSE web site:

[www.incose.org](http://www.incose.org)  
*Advancing the Practice*  
→ *Technical Activities*

### Southern Maryland SPIN Chapter March Meeting

*Hosted by SoMD SPIN Chapter in Patuxent River, Maryland*

**When:** 16 July 2008  
**Where:** Booz | Allen | Hamilton  
**Theme:** Sustaining the Southern Maryland SPIN  
**Speaker:** None; working group  
**Info:** <http://www.somdspin.org/>  
**POC:** Liz Burnett  
**Venue:** Snacks  
**Cost:** Free

### Systems Engineering and Test & Evaluation (SETE) 2008 Conference

**When:** 22-24 September 2008  
**Where:** Rydges Lakeside, Canberra, Australia  
**Theme:** "SETE for the Enterprise – Enhanced Capabilities through Integration"  
**Info:** <http://www.sapmea.asn.au/conventions/sete2008/>  
**POC:** Fiona Gurd, SAPMEA Meetings Management, 08 8274 6053 or e-mail at [sete2008@sapmea.asn.au](mailto:sete2008@sapmea.asn.au)  
**Description:** Tutorials will be held on Monday, 22 September followed by two full days of Conference Sessions. The program includes a combination of plenary, panel, tutorial, and workshop sessions as well as providing time to network with colleagues during refreshment breaks that will be held within the exhibition area.

This conference will focus on emerging Systems Engineering and Test and Evaluation (T&E) challenges in the System of Systems (SoS) domains as well as addressing systemic problems in those areas, with the objective of providing sponsors and attendees with a high return on investment. SoS integration and T&E are areas of concern for both Industry and Defense. IT systems in many organizations, for example, are little more than a collection of independently useful applications that could benefit significantly through integration. Issues addressed will include lifecycle governance, evolutionary acquisition, rapid acquisition, architecture at the Enterprise level and professional practice standards.

### 2009 INCOSE International Workshop

**When:** 31 January – 3 February 2009  
**Where:** San Francisco, California  
**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.

### 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/>  
**POC:** ASK International Conference, [is2009@askintlconference.com](mailto: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.

## SoMD BOARD OF DIRECTORS

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