



SE REVIEW



July 2008

Volume 8, Number 4



Next Board Meeting
7 August 2008
1700 – 1830
Booz Allen,
Expedition Building

Next Chapter Meeting
21 August 2008
1100 – 1300
Officer’s Club

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President’s Perspective

The opening, “In my day...” solicits the classic teenage eye roll from my daughter. I bet I am not alone. I do tend to over use it as did my father, and my daughter has been known to use it in jest: “When I was your age, Pluto was a planet.” From a Systems Engineering perspective, what is being related is a constraint that was central to one’s life but is no longer. A current constraint that is becoming more central to the lives Systems Engineers is the “Green” or sustainable environment constraint. I hope my daughter will someday say something like, “In my day, we had to spend 50 carbon shares to get to work and at least 20 water shares for dinner.” This would mean that we had not failed to meet the sustainable environment constraints and were on our way to making them obsolete.

Carbon and water shares are the realms of futurists, and INCOSE had a futurist, Dr. Shun-Jie Ji, as a keynote speaker at the 2008 International Symposium (IS2008) in The Netherlands. The theme of IS2008 was “System Engineering for the Planet”, addressing the expanding systems engineering application and responsibility. Dr. Ji was eager to speak with INCOSE because he sees possible futures, and we (the Systems Engineering community) help make the good ones and hopefully keep the bad ones from becoming a reality. Dr. Ji presented some good evidence for some dire futures. While we see some of the same evidence daily at the gas station and the grocery, we as Systems Engineers know it is a complex system, presenting complex problems that require balanced, broadly optimized solutions.

There were a lot of good papers presented that addressed the growing sustainable environment constraint and how we as System Engineers can address that constraint. I hope that we can bring some of the speakers to Southern Maryland. Besides our membership, a good audience would be from St. Mary’s College. The college has a 300-member student club Student Environmental Action Coalition (SEAC), and the college ranked number two by the Environmental Protection Agency for their total amount of green power purchased the past two years. Ted Warren has made initial contacts with the college for a one-day event, and so far things look favorable. Look for further details after school starts back up in the Fall.

Respectfully,
John Walker
President, Southern Maryland Chapter
president@INCOSE-SoMD.org

INCOSE News

Engineering community met in Utrecht

Academia, Industry and Government from 33 nations met at the 18th International Symposium in the Netherlands to exchange best practices. INCOSE explored and shared examples of how to achieve the realization of systems that meet customer objectives and societal needs during the annual conference in Utrecht, the Netherlands. Pat Hale, the president of INCOSE, opened the five-day symposium: the premier annual international forum for participants from government, industry and academia to share knowledge on the most recent innovations, trends, experiences, and concerns within the profession of Systems Engineering. This year's theme focused on achieving balanced solutions that account for the social, technological, economic, environmental, and political constraints in engineered solutions. Keynote speakers from Taiwan, Costa Rica and Europe gave an overview of the complexity to be managed by mankind and the possible impact on planet earth. Over 100 international speakers addressed these challenges, which are inherently multi-disciplinary and affect all of us in our daily lives and profoundly impact our futures - sustainable energy supplies, clean water, adequate food, efficient healthcare delivery, and global warming.

Over the 20-year history of INCOSE, Systems Engineering has developed and matured across a wide range of domains as an approach essential for the development of high technology integrated products. At this conference, there was a growing awareness of Systems Engineering as a key player with other disciplines in the understanding and delivery of balanced and sustainable solutions to many of the grand challenges facing us all. Bert Klerk from ProRail in the Netherlands, one of the keynote speakers, opened the event with an enthusiastic endorsement of the importance of Systems Engineering to his business and to society as a whole by stating that the charms and beauties of Systems Engineering have ensnared him not only with the possibilities and returns that Systems Engineering offers ProRail as a client but also the theme of this symposium. The participants from 33 nations agreed that the Systems Engineering needs to work with other disciplines in future. This is reflected in the theme of the next International Symposium in 2009 in Singapore when East meets West, The Human Dimension of Systems Engineering.



New INCOSE Professional Certifications Now Available

Today, several important updates and additions to the certification program became available. First, the basis for the Certified Systems Engineering Professional (CSEP) examination has changed from Version 2A to Version 3.1 of INCOSE's System Engineering Handbook (SEH). Version 3.1 is significant because it is based on ISO/IEC 15288, an international systems engineering standard. SEH Version 3.1 is available in electronic form free for all INCOSE members to download from INCOSE Connect.

Two new certifications are also now available. The Associate Systems Engineering Professional (ASEP) certification is targeted towards junior systems engineers with less than the five years of experience required for CSEP. ASEP uses the same examination as CSEP based on SEH Version 3.1. Also, the first CSEP extension targeted towards systems engineers who work in or support the US DoD acquisition environment (called CSEP-Acq) is now available. In addition to the core CSEP examination based on the SEH, CSEP-Acq has additional questions based on the Defense Acquisition Guidebook (DAG) Chapter 4.

Please visit the updated certification website to learn about these exciting new certification opportunities (<http://www.incose.org/educationcareers/certification/index.aspx>).

CSEP Reception at IS08 in Utrecht a Success

INCOSE CSEPs met at the certification booth in the exhibit hall during the Tuesday social time at IS08 in Utrecht to network with other CSEPs from around the world. The CSEPs also had an opportunity to meet with several members of INCOSE's Board of Directors. The IS08 Symposium Committee did an outstanding job in arranging this event.

INCOSE Certification Online Tutorial

The online tutorial covers the Certified Systems Engineering Professional (CSEP) process and the sections/appendices of the INCOSE SE Handbook Version 3.1. The tutorial consists of 12 weekly sessions, Fridays from 1200-1330 ET. Course materials include the tutorial slides and Notes, sample questions, and prior-session audio. The tutorial is limited to 250 participants.

Registration is not required for Northrop Grumman employees. Registration is required for INCOSE Corporate Advisory Board (CAB) member company employees. 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. Contact john.clark@incose.org or kelly.moses@incose.org for additional details.

CSEP Renewal Fees to Increase 1 January 2009

All current INCOSE CSEPs should note that the CSEP regular and member-discounted renewal fees will be increasing by \$50 (to \$150 and \$100, respectively) on 1 January 2009. In consideration for this increase, CSEPs certified prior to 1 July 2008 will be permitted to renew early at the current renewal rates prior to 31 December 2008, provided they are able to earn the number of PDUs required for renewal.

Schedule of *INSIGHT* Deadlines

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

SUBMISSION DATE	PUBLICATION DATE	THEME	THEME EDITOR
15 October 2008	December 2008	Space Systems: Navigating Complexity to Explore the Unknown	Jim Andary James.F.Andary@nasa.gov?subject=INSIGHT%20Volume%2012%20Number%201
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

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. On the left side, select the option to View / Update Member Record.

Chapter Highlights

Chapter Member Recognized

The members of the INCOSE Human Systems Integration Working Group (HSIWG) recently elected **Karl Geist** 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

Member Profile

Please welcome our new 2008 members:

Matthew Bukoski joined on 30 March. He works for Booz Allen Hamilton. His e-mail is bukoski_matthew@bah.com.

Kimberly Davis joined on 11 February. She is a consultant/systems engineer at Bearing Point. Her e-mail is kim.davis@bearingpoint.com, and phone number is 240-237-4041.

Michael Flynn joined on 15 January. He is the Class Desk for PMA260 at NAVAIR. His e-mail is mikefpax@gmail.com.

Barry Frederick joined on 10 March. He is a Senior Project Manager with BAE Systems. His e-mail is barry.frederick@baesystems.com.

Ossie Peacock joined on 14 February. He is the Army Liaison for PMA266 at NAVAIR. His e-mail is ossiep924@aol.com, and phone number is 301-757-5831.

Chuck Pedriani joined on 1 April. He is a PAO Office Manager with SURVICE Engineering. His e-mail is chuck@survice.com, and phone number is 301-866-2080.

David Sauve joined on 17 April. He is an Associate with Booz Allen Hamilton. His e-mail is desauve@gmail.com, and phone number is 301-863-3477.

Joel Sorli joined on 9 January. He is the Branch Head for Mechanical Systems & Diagnostics at NAVAIR. His e-mail is Joel.Sorli@navy.mil, and phone number is 301-995-2942.

Roger Stanton joined on 22 June. He is a Test Pilot with the US Navy at NAVAIR. His e-mail is Roger.Stanton@navy.mil, and phone number is 301-342-6072.

Shawn Woodson joined on 7 April. He is an Aerospace Engineer at NAVAIR. His e-mail is Shawn.Woodson@navy.mil, and phone number is 301-342-8543.

Outreach: Feature Story!

INCOSE to give an ISEF Award
By John Walker

As I reported last month, I along with the Member Board was lobbying the INCOSE BOD to commit to giving an award at the Intel International Science and Engineering Fair. At that time, it was up in the air if it would happen. I am happy to report that I received a report from Jonette Stecklein, our Member Board Co-Chair on the INCOSE BOD, that the proposal was unanimously approved. As a further update, I have contacted the Society

Chapter Highlights (cont.)

for Science and The Public; Pat Hale has submitted the application form, and INCOSE's application has been approved. Starting this October, INCOSE will be listed at http://www.sciserv.org/isef/about/special_awards.asp as: "The International Council on Systems Engineering (INCOSE) is a not-for-profit membership organization founded to develop and disseminate the interdisciplinary principles and practices that enable the realization of successful systems. INCOSE gives a \$1500 award to the best interdisciplinary project that can produce technologically appropriate solutions that meet societal needs."

That is the start, but there is a lot of work to be done between now and next May 14 in Reno, Nevada when the award will be presented. We need to establish criteria and a detailed judging process, we need to select judges and make all kinds of logistics arrangements, and we need to prepare award material both for the winner and finalists of interest. We need to establish links between the INCOSE chapter supporting local Science and Engineering Fairs. To support this task, a new INCOSE working group is being formed, the International Science and Engineering Fair Working Group, with an INCOSE connect site to develop the products needed.

More information will be published in the September issue of *INSIGHT*. If you would like to help in this INCOSE initiative, please join the Working Group. Please contact me at John.Walker@INCOSE-somd.org.

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, Dawn Jaeger at Dawn.Jaeger@navy.mil, or Steve McKeown at 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: 21 August 2008, 1100-1300

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

Theme: Modeling and Simulation

Info: 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.)

Southern Maryland SPIN Webinar

Hosted by SoMD SPIN Chapter in Patuxent River, Maryland

When: 31 July 2008, 1:00-2:00 p.m. EDT

Where: Webinar

Theme: Workforce Issues of the 21st Century: [The People CMM](#) to the Rescue

Speaker: Gian Wemyss and Palma Buttles-Valdez

Info: <http://www.sei.cmu.edu/collaborating/spins/webinars.html>

POC: Shane McGraw, 412-268-2358 or spin@sei.cmu.edu

Cost: Free

Description: This presentation will open with a discussion of workforce issues organizations are currently experiencing, potential side effects, and how these issues can effect performance and retention. Following will be introduction to the People CMM and how it can assist organizations in implementing practices that build greater workforce capability and equip organizations to address potential current and future workforce issues.

Introduction to People CMM® Course

Hosted by Carnegie Mellon Software Engineering Institute

When: 6-8 August 2008

Where: SEI Offices, Arlington, Virginia

Info: <http://www.sei.cmu.edu/products/courses/intro/intro.to.p-cmm.html>

POC: SEI at (412) 268-7388

Cost: US Industry: \$1650.00, US Government/Academic: \$1320.00

Description: This three-day course introduces those who are involved in improving workforce management practices or managing technical professionals to the People Capability Maturity Model® (People CMM), Version 2.0, its fundamental concepts, and the value it can bring to organizations using it. The People CMM is a framework that organizations can use to guide attracting, motivating, and retaining a talented technical staff. The practices in the model help an organization be an employer of choice and ensure that the staff has the competencies to achieve an organization's current and future business objectives.

Southern Maryland SPIN Webinar

Hosted by SoMD SPIN Chapter in Patuxent River, Maryland

When: 14 August 2008, 1:00-2:00 p.m. EDT

Where: Webinar

Theme: Service-Oriented Architecture ([SOA](#))

Speaker: Grace Lewis

Info: <http://www.sei.cmu.edu/collaborating/spins/webinars.html>

POC: Shane McGraw, 412-268-2358 or spin@sei.cmu.edu

Cost: Free

Description: It is clear that Service-Oriented Architecture (SOA) is having a substantial impact on the way software systems are developed. According to a 2007 Gartner Group report, 50% of new mission-critical operational applications and business processes were designed in 2007 around SOA, and that number will be more than 80% by 2010. This presentation will provide an overview of SOA a development paradigm and explain the implications that SOA adoption has on the processes used to develop service-oriented systems.

Southern Maryland SPIN Chapter March Meeting

Hosted by SoMD SPIN Chapter in Patuxent River, Maryland

When: 20 August 2008

Where: Frank Knox Building

Theme: TBD

Speaker: TBD

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

POC: Liz Burnett

Venue: Snacks

Cost: Free

Upcoming Events (cont.)

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

www.incose.org
Advancing the Practice
→ *Technical Activities*

Asia-Pacific Conference on Systems Engineering (APCOSE 2008)

Hosted by INCOSE Region VI Chapters

When: 22-23 September 2008

Where: Yokohama Hiyoshi Campus of Keio University, Yokohama, Japan

Theme: Systems Engineering: Wisdom for Global Harmony

Info: <http://www.incose.org/japan/apcose2008/>

POC: Prof. Hidekazu Nishimura, apcose2008@sdm.keio.ac.jp

Description: The suggested keywords for APCOSE 2008 are given below and relevant researchers/engineers are encouraged to take advantage of this opportunity to make a presentation of their work and interact with other scientists and engineers in the field.

- International Security
- Safety and Security
- Safety and Risk Management
- Environment Conscious Development
- Disaster Mitigation
- Education/Public Outreach
- Human Factors and Facilitation
- Systems Engineering Management
- Space Systems Design and Operations
- Product Line Engineering
- New Product Design and Development
- Innovative Use of Information Technology
- Multi-objective Optimization
- Model Based System Engineering
- Embedded Systems
- Architecting and Integrating
- Systems Engineering Research

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

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.

Upcoming Events (cont.)

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

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.



HOPE EVERYONE HAS A
WONDERFUL SUMMER!

SoMD BOARD OF DIRECTORS

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