



INCOSE Region V
Huntsville Regional Chapter
Newsletter May 2007



The International Council on Systems Engineering is a not-for-profit membership organization founded in 1990. INCOSE is an international authoritative body promoting the application of an interdisciplinary approach and means to enable the realization of successful systems.

NEXT CHAPTER MEETING

May 17, 2007

Location: 4901 Corporate Drive, Building B, Huntsville, Al. SAIC Millennium Room, at 5:30 p.m. – 7:30 p.m.

Presentation Topic: Complex System Management

Speaker: Major General John W. Holly, USA (Ret.), President, Managing Director, and board member of Analytical Services, Inc. (ASI)



General Holly will overview his expectations of program managers and discuss risk-based management as an approach to managing complex programs.

MG Holly joined ASI in March 2006 and is responsible for the company's day to day operations and actively guiding ASI's long-term strategic vision and growth plans in both the space and defense marketplace.

Prior to joining ASI, he was the senior Vice President and General Manager of the Federal Solutions business unit at Intergraph Corporation, a leading global provider of spatial information management software, security and life-cycle management solutions.

During a distinguished military career that spanned over three decades, General Holly became a national authority on missiles and missile defense systems, having served at every level of program management in the Department of Defense. His last assignment was the Deputy Director of the Missile Defense Agency.

His most significant achievement while on active duty was leading the construction, testing, and deployment of a missile defense system to defend the United States against attacks by long-range ballistic missiles. Additionally, he managed the Army's \$3B portfolio of tactical missiles.

His operational assignments include experience as both a commander and staff officer in a variety of operational units from platoon through Corps levels. During an assignment at the U.S. Military Academy, he was both an Instructor and Assistant Professor of Engineering.

In addition to his professional and military accomplishments, Holly holds a bachelor of science degree from the U.S. Military Academy and a master's in mechanical engineering from the Georgia Institute of Technology. Holly is a licensed professional engineer in the Commonwealth of Virginia and served as a trustee-at-large for the Association of Graduates of the U.S. Military Academy.

He is the recipient of the Society of Automotive Engineers' Teetor award and the National Defense Industrial Association's Gold medal.

UPCOMING CHAPTER MEETING

June 21, 2007

Location: 4901 Corporate Drive, Building B, Huntsville, Al. SAIC Millennium Room, at 5:30 p.m. – 7:30 p.m.

Presentation Topic: The Portfolio Effect Reconsidered

Speaker: Dr. Christian Smart is currently a technical manager with MCR, LLC.



Dr. Smart is a Certified Cost Estimator /Analyst (CCEA), and a member of the Society for Cost Estimating and Analysis (SCEA) and the International Society of Parametric Analysts (ISPA). Dr. Smart is a past president of the Greater North Alabama Chapter of SCEA.

He has given numerous presentations on cost modeling both in the U.S. and abroad. Dr. Smart was cited as the 2006

Professional of the Year for the Greater North Alabama Chapter of SCEA. He was awarded best paper in the applications track at the 2004 ISPA conference for "Process-Based Modeling".

Dr. Smart earned bachelors degrees in Economics and Mathematics from Jacksonville State University, and a Ph.D. in Applied Mathematics from the University of Alabama in Huntsville.

Dr. Smart will discuss the argued benefits of a portfolio effect when managing projects as a group. The gap between theory and reality is demonstrated, and potential methods for handling this gap are discussed.

It has recently been argued that funding for multiple missions benefits from a portfolio effect – that is, that the various risks of cost overruns for individual missions is less when considered as a group. This is based on modern financial theory that was originally developed by Nobel laureate Harry Markowitz.

The result of this diversification, in theory, should allow NASA the ability to fund individual missions at, for example, the 61st percentile, while achieving an overall confidence that is much higher, such as the 80th percentile.

However, this convenient and elegant theory ignores the high frequency of large cost overruns. According to a recent cost growth study by NASA Headquarters, 12% of recent NASA projects have experienced cost growth in excess of 100%. This is because reality has "fat tails" that cannot be adequately modeled by the commonly used normal and lognormal distributions.

Note: SAIC security policy restricts facility entry to U.S. persons only, pursuant to U.S DOD Contractor, Facility Access Rules Compliance

UPCOMING TECHNICAL SOCIETY/OTHER MEETINGS

[2007 AAMU/Huntsville Nanotechnology Meeting](#)

Date: **May 21-22, 2007.**

Location: Alabama A&M University

Technical Presentations:

- Projection ion-beam lithography and direct-patterning
- Focused ion-beam processing
- Nanoscale surface topography, smoothing, ripples
- Surface activation for selective bio-adhesion and molecular manipulation
- Optimization of ion-beam processing
- Robust fabrication techniques.
- Applications for nano-bio systems

Points of Contact:

- Daryush ILA, 256-372-8703 ILA@aamuri.aamu.edu ;
- Sheri D. Powell, 205-348-4878 al-epscor@bama.ua.edu

[Project Management Institute North Ala. Chapter \(PMI-NAC\)](#)

Date: **Wednesday, May 23, 2007.** 9:00 a.m.–5:00p.m.
(registration at 8:30 a.m.)

Location: 6725 Odyssey Dr., Huntsville, AL

Presentation Topic: Earned Value Management - Preparing for EVMS Implementation

Speaker: Kelly Gaston, PMP, and Candi Randolph, PMP from Charter Performance Management Group, experts in Project Management and EVMS implementation.

Description: During this seminar, you will learn how the recent changes in government policies are impacting organizations of all sizes, how to assess the scope of implementing of an EVMS in your specific environment, and how to manage customer and corporate leadership expectations throughout the process of achieving EVMS certification.

Point of Contact: Register online at the PMI –North Alabama Chapter website at: <http://www.acteva.com/go/pmi-nac>.
Registration is limited to the first 35 participants.

Cost: \$295 for PMI members; \$375 for non-PMI members (incl. lunch and refreshments)

Continuing Education: Six PDUs are awarded for the course, usable for PMI recertification.

[NDIA Luncheon](#)

Date: **Wednesday, 25 July 2007**, 11:30 - 1:00

Location: Huntsville Marriott, Tranquility Base

Presentation Topic: TBD

Speaker: Brigadier General Gary S. Connor Program Director, Ground-Based Midcourse Defense (GMD) Joint Program Office, Missile Defense Agency

Point of Contact: [Click here to Register](#)

INCOSE NATIONAL NEWS

[INCOSE Symposium 2007, June 24-28, 2007](#)

Location: Town and Country Resort, San Diego, California

Theme: Systems Engineering: Key to Intelligent Enterprises highlights the dramatic expansion of opportunities available to those who learn to see and treat enterprises as systems and systems as enterprises.

This symposium will explore the value of systems engineering with respect to:

- Evolving from integrated product and process development to integrated product, process and enterprise development, the key to sustainable enterprises.
- Adding sufficient adaptation and alignment loops to make an enterprise aware of its situation and able to pursue its goals even in environments of unpredictable change.
- Leveraging the unique capabilities of individuals to increase their rate of innovation and co-learning.
- Making systems engineering an intelligent enterprise

[10th Annual Systems Engineering Conference](#)

Date: **October 22 - 25, 2007**

Location: Hyatt Islandia, San Diego, CA USA

Description: The tenth annual Systems Engineering Conference is jointly sponsored by INCOSE and the NDIA SE Department

Please visit the INCOSE website for a full schedule of important dates: <http://www.incose.org/newsevents/schedule.aspx> and upcoming events: <http://www.incose.org/newsevents/events/>

SE RESOURCES

[JACIC Free for Two Weeks](#)

Explore the entire content of the Journal of Aerospace Computing, Information, and Communication (JACIC) for two weeks for free! You'll be able to read every paper from the first issue published in January 2004 through the current issue. JACIC publishes qualified papers in areas such as information technology, information assurance, data mining, real-time systems, computational techniques, embedded systems, communication systems, and more. Choose the issues you want to read from the table of contents. Click on the paper title to read the full text. This free offer expires 27 May.

MEMBER NEWS

Please send your Member News to our new Secretary, John Jellicorse, at jellicorse_john@bah.com, or call him at 922-2783.

COMPANY NEWS

Please send your Company News to our new Secretary, John Jellicorse, at jellicorse_john@bah.com, or call him at 922-2783.

JOB OPPORTUNITIES

Systems Engineering Job Bank. INCOSE has partnered with JobTarget to deliver a full-featured job site developed explicitly for the systems community. Individuals can post their resume to the anonymous resume bank free of charge and create personal job alerts so that they are notified when opportunities of interest are available. Employers can search the focused resume database and post job openings.

The new job bank allows job seekers to: search targeted opportunities; post your resume for free (and anonymously); choose what to divulge in your resume; stay connected to the employment market; and receive alerts for opportunities of interest. Visit the job bank today, and take advantage of this new resource:

http://jobsconnection.incose.org/home/index.cfm?site_id=582

CONTACT INFORMATION

Find us on the web at www.incose.org/huntsville. Please contact John Jellicorse at 256-922-2783 with any Newsletter inputs at any time, and questions or comments about this newsletter.

For questions or comments regarding the INCOSE Huntsville Regional Chapter (HRC), please contact Chester Williams at chester.williams.jr@saic.com, 256-971-6703.

Postal address

HRC INCOSE
P.O. Box 5015
Huntsville, AL 35814

Your INCOSE HRC officers need your inputs to make this newsletter better speak to your needs. We solicit YOU, the INCOSE membership, for items of interest from your company, local conferences, published tech papers or books, news regarding job transfers, new jobs, etc.

Your Local Chapter Contact Points (detailed bios at <http://www.incose.org/huntsville>)

Officer Position	Name	Phone Number	Email Address
President	Chester Williams, Jr./SAIC	256-971-6703	chester.williams.jr@saic.com
President-Elect	Larry Smith/AMRDEC	256-313-8419	larry.smith8@us.army.mil
Active Past President	Rick Leonard/AMSRD-AMR-BA-C3I	256-876-4714	Ricky.Leonard@us.army.mil
Vice-President	Bill Sowder/TBE	256-726-1697	William.sowder@tbe.com
Treasurer	Eric Schacht/Intergraph	256-730-1582	Eric.Schacht@intergraph.com
Secretary	John Jellicorse/Booz Allen Hamilton	256-922-2783	Jellicorse_john@bah.com
Membership Committee Chair/Webmaster	Bob Robinson/Boeing Company	256-464-4799	robert.a.robinson5@boeing.com
Industry Representative	Jana Killebrew/Jacobs Engineering	256-544-6609	Jana.L.Killebrew@nasa.gov
Government Representative	George Matty/AMRDEC	256-842-7245	George.Matty@us.army.mil
Academic Representative	Dr. Paul Componation/UAH	256-824-6738	pjc@ise.uah.edu