



**INCOSE Region V**  
**Huntsville Regional Chapter**  
**Newsletter APRIL 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**

**April 19, 2007**

**Location:** 4901 Corporate Drive, Building B, SAIC Millennium Room, at 5:30 p.m.

**Presentation Topic:** The School of Engineering and Technology and our Future

**Speaker:** Dr. V. Trent Montgomery, Dean, School of Engineering & Technology, Alabama A & M University.



As Dean of the School of Engineering and Technology, Dr. Montgomery is responsible for effective operations of the School which includes enhancing the quality of curricula, facilities, students, and professors; enrollment management; research policies and acquisitions; and acquiring additional resources to carry out the functions listed above. Dr. Montgomery has over 30 years of engineering education, practice and administration. His areas of specialty

include computer architecture, embedded systems, and non-linear electronics.

The School is composed of civil, electrical and mechanical engineering programs, electrical and mechanical engineering technology programs, computer science, and industrial technology. The total enrollment is 1096 undergraduate and graduate students. There are 47 faculty members and 12 staff members. With an annual average production of 60 undergraduates, the School is currently ranked 15th in the Nation in its production of African American engineers.

The faculty of the School performs research in artificial color filtering, signal processing, pattern recognition, target recognition, MEMS sensors, nano-materials, electronic characterization of materials, coating materials, parallel processing, modeling and simulation, prognostics/diagnostic systems, composite materials, and MEMS devices use for construction materials. To further support researchers, the school has developed a class-1000 micro-electronics fabrication laboratory, a failure Analysis, Characterization and Testing (FACT) laboratory, a multi-processor laboratory, and a construction materials testing laboratory. The School is in the process of developing a supersonic wind tunnel to support the propulsion option within Mechanical Engineering. In addition, the faculty has access to the Alabama Supercomputer Network.

Prior to coming to Alabama A&M University, Dr. Montgomery acquired over 20 years of experience at Southern University in Baton Rouge, Louisiana where he served as Dean of the College of Engineering, professor of Electrical Engineering and

Computer Science. He is a registered professional engineer and has worked for AT&T Bell Labs and IBM. He holds a Ph. D. degree from the University of Texas, Austin.

**May 17, 2007**

**Location:** 6725 Odyssey Drive (SAIC Building), Patriot Room at 5:30 p.m.

**Presentation Topic:** Managing Complex Programs

**Speaker:** Major General John W. Holly, USA (Ret.), President and Managing Director, 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 TECHNICAL SOCIETY/OTHER MEETINGS**

[AIAA April Luncheon Meeting](#), Tuesday, April 17, 2007

**Location:** NASA/USSRC Educator Training Facility (Between Space & Rocket Center and Marriott Hotel) Social 10:45 AM; Lunch at 11:00 AM

**Presentation Topic:** Project Mars: A Technical Tale

**Speaker:** Irene Willhite, Archivist /Curator U.S. Space & Rocket Center Huntsville, Alabama

**Description:** Irene Willhite will give a presentation describing the major project of publishing the book "Project Mars: A Technical Tale", containing von Braun's fictional and technical writings on Mars exploration. Irene's talk will be followed by a tour of the Space and Rocket Center exhibits of interest for lunar and Mars exploration, and the von Braun gallery.

**Point of Contact:** Mike Tinker, AIAA Vice Chair and Programs Director. Email (preferred): [mike.tinker@nasa.gov](mailto:mike.tinker@nasa.gov); Phone 655-9665; RSVP no later than 12:00 noon, Thursday, April 12<sup>th</sup>.

[2007 AAMU/Huntsville Nanotechnology Meeting – Ion Beam Nanofabrication](#), May 21-22, 2007.

**Technical Presentations include:**

- 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

**Invited topics include:**

Projection Ion Beam Systems, FIB for Device Fabrication, Nanoscale Morphology Control using Ion Beams, Direct Proton Beam Writing at 30nm Scale, High-Z Ion Beam for Device Fabrication, Patterned Magnetic Media, and Nano-structured IR Materials for Small Uncooled Cameras, FIB Fabrication of Surface-Wave Activated Nanophotonic Devices, FIB Assisted Microfabrication of Multifunctional Scanning Probes and Biosensors, FIB Templating of Epitaxial Growth.

**Points of Contact:**

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## **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

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/>

## **MEMBER NEWS**

Please send your Company News to our new Secretary, John Jellicorse, at [jellicorse\\_john@bah.com](mailto:jellicorse_john@bah.com), or call him at 922-2783.

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## **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](http://jobsconnection.incose.org/home/index.cfm?site_id=582)

## **CONTACT INFORMATION**

Find us on the web at [www.incose.org/huntsville](http://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](mailto:chester.williams.jr@saic.com), 256-971-6703.

### **Postal address**

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*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 Contacts (detailed bios at <http://www.incose.org/huntsville>)**

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