



**INCOSE Region V**  
**Huntsville Regional Chapter**  
**Newsletter July 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.*

---

**HUNTSVILLE CHAPTER RECEIVES INCOSE SILVER CIRCLE AWARD CHAPTER FOR 2006!**

INCOSE President Paul Robitaille, Member Board Chair Jim Armstrong, and Member Board Co-Chair Gunter Daley on behalf of the International Council on Systems Engineering (INCOSE) have recognized the Huntsville Chapter as a Silver Circle Award Chapter based upon its contributions and accomplishments in 2006.

This annual award recognizes chapters performing to the highest goals and standards established by our organization, and celebrates the contributions and achievements of the Huntsville Chapter, its leaders, and its sponsors. The Award will be presented at the 2007 INCOSE International Symposium in Orlando, Florida.

High quality, vibrant chapters are essential in INCOSE's drive to enrich, educate, and enlighten the INCOSE membership while improving recognition of INCOSE and the systems engineering profession.

The Member Board and INCOSE extend heartfelt thanks and appreciation to the Huntsville Chapter for its contributions towards attaining these goals.

**NEXT CHAPTER MEETING**

As standard for the Huntsville Regional Chapter, there is **no general chapter meeting in July**. In lieu of the general meeting, there will be a chapter Officers Meeting on July 19, 2007 to support activity planning for the remainder of the year.

The meeting will be held at 4901 Corporate Drive, Building B, Huntsville, Al. SAIC Millennium Room, at 5:30 p.m. – 7:30 p.m.

If you have any suggestions for speakers, topics, or other INCOSE related activities you would like to see, please contact any of the chapter officers listed at the end of this newsletter.

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

**UPCOMING CHAPTER MEETING**

**August 16, 2007**

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

**Presentation Topic:** SUPERSYSTEMS

**Speaker:** William (Bill) F. Sowder, a Technologies Group Director at Teledyne Brown Engineering in Huntsville, Alabama.



What might appear to be an empty space as we are taught to believe, is actually a seething ferment of virtual particles. Vacuum is not inert and featureless but alive with throbbing energy and vitality.

A real particle such as an electron from classical physics must always be viewed against this background of this frenetic activity. When an electron moves through space it is actually swimming in a sea of virtual particles of many varieties.

The dynamics of these interactions constitutes "Supersystems" that will become frontiers for future explorations. It is time for us to seek the "Energy in the Vacuum"

Mr. Sowder has over 50 years in the field of Ballistic Missile Defense. He retired from Boeing where he was the Test Director for the NMD/GMD Program. He was the Test and Evaluation IPT Lead that staffed, designed, and implemented the system-of-system flight and ground test activities.

Bill has participated in the early BMD efforts from Nike Zeus, Nike-X, SAFEGUARD, Site Defense, LOAD, SDI, GPALS, to the recent GMD deployment.

Bill graduated from Ohio State in 1954 with a Bachelor in Aeronautical Engineering, and from UAH in System Engineering in 1976.

## **UPCOMING TECHNICAL SOCIETY/OTHER MEETINGS**

### [2007 Space & Missile Defense Conference & Exhibition](#)

**Date:** August 13-16, 2007

**Location:** Von Braun Center, Huntsville, Alabama

**Theme:** Celebrating 50 Years in Space & Missile Defense

Conference highlights include presentations in the areas of global ballistic missile defense systems development and operation, as well as integration, synchronization, and capability development to meet new threats. The conference will also include a training and technology track focused on emerging technologies. Sessions will also cover space support to the warfighter, homeland defense, and the integration of cruise missile defense.

Confirmed speakers include Gen. James E. Cartwright, commander, U.S. Strategic Command (USSTRATCOM); Lt. Gen. James A. Abrahamson, director, Strategic Defense Initiative Organization; and MG Howard B. Bromberg, chief of staff, USSTRATCOM.

## **INCOSE NATIONAL NEWS AND EVENTS**

### [7th NRO/AIAA Space Launch Integration Forum](#)

**Date:** 24 - 25 Jul 2007

**Location:** Scitor Corporation Chantilly, VA

**Theme:** Mission Integration in an Evolving Launch Environment

The 7th NRO/AIAA Space Launch Integration Forum will provide opportunities for space professionals to investigate new technologies, processes, practices, lessons learned, and other integration solutions that will enhance mission success related to space launch system integration and technology. Presentations at this year's forum will be in the following topic areas:

- Advanced launch vehicle propulsion technologies and systems
- Innovative tools and techniques for interface risk identification and mitigation
- Advanced mission integration concepts and practices
- New tools and techniques in launch processing and operations
- Integration lessons learned from recently flown missions

### [AIAA Joint Conferences & Exhibits](#)

**Date:** 20 - 23 Aug 2007

**Location:** Hilton Head, South Carolina

**Conference 1:** Guidance, Navigation and Control

This year's technical program includes many sessions in the areas of control theory analysis and design, GN&C concepts in air traffic control systems, and multivehicle control.

### **Conference 2:** Atmospheric Flight Mechanics

Presentations will cover the topics of aircraft dynamics, unsteady and high angle-of-attack aerodynamics, flying qualities, system identification, aerospace vehicle flight testing, projectile and missile dynamics, unmanned aerospace vehicles, reusable launch vehicles, and reentry and aeroassist vehicles.

### **Conference 3:** Modeling & Simulation Technologies

Emphasis will be on the changing requirements resulting from military operations, including urban combat, while addressing the design and development of flight simulation hardware, software, systems, innovative approaches, applications, and relative advances that keep modeling and simulation tools a viable, effective, and efficient engineering tool.

### [SE of Complex Systems Conference](#)

**Date:** October 28 - November 02, 2007

**Location:** Boston, MA

INCOSE is sponsoring a conference on the Systems Engineering of Complex Systems in association with the International Conference on Complex Systems.

Recognizing the potential impact of complexity and complexity science on the continued evolution and maturation of Systems Engineering, and the need for venues for the presentation and distribution of active research and practice in this area, papers will include Systems Engineering of those systems often described with the terms system of systems, ultra-large systems, mega-systems, and enterprises.

Emphasis will be in the areas where multiple, independent stakeholder communities collide; or where the "system" under study is not under the control of a single entity; or where the character of the social, cultural, or business aspects impact the technical.

**Contact:** Doug Norman (AD for Enterprise Sector), Brian White (AD for Systems Science Enabler Group); or Sarah Sheard (INCOSE Fellow) for more information.

### [10th Annual Systems Engineering Conference](#)

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

**Location:** Hyatt Islandia, San Diego, CA USA

The primary objective of the 10th Annual Systems Engineering Conference is to provide insight, information and lessons learned into how we can improve the overall performance of defense programs via a better, more focused application of systems engineering, that will lead to more capable, interoperable and supportable weapon systems for the warfighter, with reduced total ownership costs, to help our military meet its current and new Mission Area and Capabilities requirements.

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

## SE RESOURCES

### [What are the Engineering Grand Challenges for the Next 100 Years?](#)

The US National Academy of Engineering (NAE) has launched a project aimed at determining the "Grand Challenges" for Engineering during the next 100 years and, perhaps, beyond. Experts around the world are invited to contribute to this brainstorming exercise. **You are welcome to provide your ideas as well. Just click on the title to add your thoughts.** The best 20 ideas will be selected by a committee of eminent representatives of the engineering profession and announced in September 2007.

## MEMBER NEWS

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

## COMPANY NEWS

Please send your Company News to our Secretary, John Jellicorse, at [jellicorse\\_john@bah.com](mailto: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 engineering 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:

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