

Tennessee Valley Flyer

“TOP OF ALABAMA”



2ND QUARTER 2011

ISR: Challenges and Future

It didn't go unnoticed that the facility, named after the man who literally rocketed the U.S. into space, was host to the General who transformed the USAF's intelligence, surveillance, and reconnaissance (ISR) operations. On 10 March, the audience listened intently as retired Lt. General David Deptula prescribed a future for ISR. The Air Force's first Deputy Chief of Staff for ISR, Gen Deptula, spoke on "Current and

Future Challenges in Joint ISR." The luncheon at the Von Braun Center was hosted by the local chapters of the Air Force Association (AFA), the Armed Forces Communication-Electronics Association (AFCEA), the National Military Intelligence Association (NMIA), and the National Defense Industrial Association



Lt Gen (Ret) David Deptula (far right) speaks with several Tennessee Valley AFA members. .

(NDIA). With more than 20 corporations, and almost 300 individuals in attendance, Huntsville was treated to one of the nation's renowned experts on ISR.

In his talk, Gen Deptula described an ISR para-

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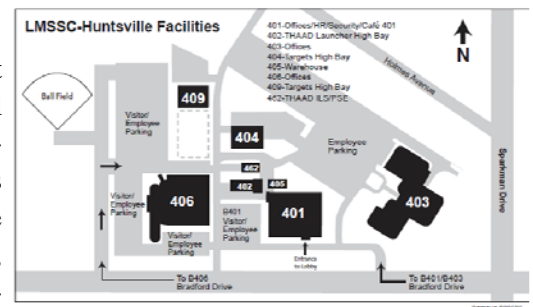
digm, ingrained for over 150 years, which won't be easily changed. However, he was quick to

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Local Air National Guard Unit's Eagle Vision Mission the

Even before the last tornado had crossed the Alabama border, "Eagle Vision", a family of sites used to collect and exploit commercially available satellite imagery, were streaming high quality satellite imagery of the devastation. Thus, enabling officials at the national, state, and local levels to immediately begin the assessment and recovery planning. Interestingly, an Alabama Air National Guard unit here at Redstone Army Arsenal, is one of only five Eagle Vision sites world-wide.

On Thursday, 19 May at 6:00 pm, Col Rob Bell, will discuss the Eagle Vision Program and the role that his unit serves in supporting the requirements of war-fighters, homeland security, and responses to disasters (e.g. the Japanese earthquake and tsunami). The meeting is open to the public and will be held at the Lockheed-Martin Campus located at 4800 Bradford Drive, Bldg 406.



Tennessee Valley AFA Chapter's Quarterly Meeting—Thursday, 19 May at 6:00 pm

Bob Jones Teacher Selected as Chapter and State Teacher of the Year

When you live in “Rocket City”, people naturally come to expect more. Nationally recognized for highly educated and engineering focused community, it should come as no surprise that the Tennessee Valley Chapter’s Teacher



Bob Jones High School students from the E4T Academy design, build, and program a Lego robot to play basketball as part of a Computer and Software Engineering performance test.

of the Year was also selected as Alabama’s AFA Teacher of the Year.

Jeremy Raper, an engineer by trade, began at Bob Jones High teaching science. He then approached the administration about initiating an engineering program that has, since, grown to be a most popular elective area of concentration.

The “Engineering For Tomorrow” (E4T) Academy is completing its second full year this month. Through this program, over 200 students (grades ten through

twelve) have, and are gaining, an appreciation and excitement for the field of engineering.

As this year’s Chapter and State winner, Mr. Raper received:

- Two checks totaling \$750
- AFA Tote Bag and Jacket
- Membership in the Civil Air Patrol

As the State winner, he will go on to compete at the national level, where the winner receives an all-expense paid trip to Washington DC to receive the award (in conjunction with the National Convention), and a check for \$3,000. Let’s wish him luck and continued success!

CYBERPATRIOT IV— GOLDEN OPPORTUNITY TO SUPPORT STEM

CyberPatriot IV is the premier national cyber defense competition. It is open to high schools, all JROTCs, and Civil Air Patrol (CAP) units across the nation. AFA launched CyberPatriot to foster educational excellence in science, technology, engineering and math (STEM) disciplines, as well as, generate enthusiasm among the nation’s youth to respond to the technology challenges of the 21st century.

AFA’s Tennessee Valley Chapter is promoting CyberPatriot because STEM education is critical to our nation’s security, the growth of our technology-rich economy, and the future of our youth.

The requirements for the program are simple and AFA Chapter 335 can help high schools, JROTC, and CAP units meet these needs.

- ✦ Form a CyberPatriot team with a coach and mentor.

Registration fee: \$350.00. JROTC and CAP unit fees may be paid by their organizational headquarters.

This fee covers: Microsoft Academic Alliance Developer Software (\$499 value), access to online training materials and scholarship/career information, participant kits and all travel expenses for finalists.

CyberPatriot IV registration has already begun and will run till 8 October 2011, but early registration is important! Online practice

rounds

run from 29 Aug through 9 Oct. The competitive begins 29 Oct through 29 Jan 2012. Semi-finalists will compete in Orlando 23—24 Feb, with the finals taking place 22—24 Mar in Washington DC.

To register or for more information go to:

www.uscyberpatriot.org.

We need volunteers to help raise awareness in the community and schools, obtain sponsorships, mentor teams, etc.

Please contact: Rob Kuehn at 256.975.4752, or by email at: rk.silvereagle@comcast.net.

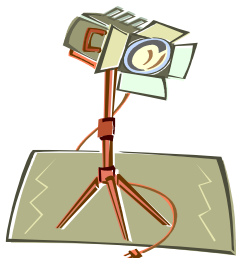


ManTech International Corp /



ManTech International Corporation has over 10,000 employees working in 49 states and 40 countries in support of our nation's national security missions. ManTech's Huntsville operations (NeXolve, previously SRS Technologies) has a long heritage supporting the Missile Defense Agency,

NASA, US Army Space and Missile Defense Command,



Spotlight – Community Partners

Founded in Huntsville, Alabama in 1992 Bevilacqua Research Corporation has grown to over 130 employees serving customers in seven states. From its roots as a high-technology modeling & simulation company, concentrating in new forms of artificial Intelligence, BRC's core competencies have expanded to include test & evaluation, Intelligence, Surveillance and Reconnaissance (ISR), civil and structural engineering, survivability engineering, Information Technology (IT) and CYBER technology as well as classic technical support.

The company is best known for its development of the CORE toolset for which it won the Small Business

and the US Army Aviation and Missile Command.

Aerospace Technology: ManTech scientists are developing high performance polymers and coatings for use in Aviation, Space and High Altitude applications such as thermal control systems, thin film diffractive optics, and lightweight deployable structures.

Missile Defense Test Support: ManTech engineers support missile defense through target mission support; acquisition and integration support; frequency spectrum expertise; software development; and Communications Security.

Integrated Logistics: ManTech provides management of logistics programs covering operational readiness, streamlined supply chain, transportation and global property management.

Environmental Services: ManTech engineers provide the complete range of services necessary for interpretation and implementation of environmental statutes and regulations.

Commercial Product: ManTech has developed *Document Detective* -- a desktop application designed to redact, sanitize, and highlight all forms of "hidden data" in electronic document formats like Microsoft Word/PowerPoint/Excel and Adobe PDF.

For more info go to their web at: www.mantech.com/

Bevilacqua Research Corporation

Administration's Tibbetts award for excellence in innovation in 1998. CORE allows users to create and test algorithms that enhance physics-based calculations with human knowledge for advanced applications such as human behavioral modeling, intelligence analysis, anti-terrorism/anti-drug analysis, CYBER analysis, remote sensing and other applications where knowledge manipulation is the key to understanding and solving a difficult problem.

BRC's current customer base includes NASA, Army Corps of Engineers, Department of the Interior, several USAF, Army and Navy customers as well as other defense agencies. One of their larg-

est current contracts is the OSC Joint Test & Evaluation program. As prime contractor on this important program, BRC supports combatant commands by performing critical joint tests at sites across the US and overseas.

Their newest initiative is the establishment of a CYBER research center at their Corporate drive facility in Huntsville. This facility will be used to demonstrate advanced CYBER-related technologies as well as to train the next generation of CYBER warriors.

For more information visit their website at: www.brc2.com



Lamar Advertising

A simple flip of the coin in Pensacola, Fla., landed Charles W. Lamar Sr. the opportunity of a lifetime. In 1908, when Mr. Lamar and J.M. Coe decided to dissolve their three-year partnership, a coin toss was used to divide their assets: the Pensacola Opera House and the Pensacola Advertising Company, the small poster company created to promote the Opera House. Mr. Lamar lost the toss and was left with the less-lucrative poster company, which he renamed Lamar Outdoor Advertising Company.

Over the course of the next century, Mr. Lamar and his descendants built Lamar Advertising from a small sign company on the Gulf Coast into one of



the largest providers of out-of-home advertising in the nation. Through generations of commitment, integrity and innovation, Lamar has changed the nation's landscape while still maintaining the character of a family business.

Now based in Baton Rouge; Lamar is the nation's largest outdoor advertising company. Today, digital billboards allow advertisers to update their messages instantly.

Nationally, Lamar has 3,300 dedicated employees located in more than 150 offices in the United States, Canada, and Puerto Rico.

Locally, Denise Shewmake and her Team are ready to help you get your message out to the thousands who move daily throughout Huntsville and Madison. From graphic design to product placement, on any of over 800 billboards across the area, her team of professionals will bring results. Call (256-533-6117), visit at 301 Pratt Ave. (in 5-Points), or check them out on the web at: www.lamar.com.



Lamar Advertising digital billboard promoting the U.S. Air Force Birthday

Spotlight – Community Partners

L-3 Communications



communications

Formed in 1997, in just 14 years, L-3 Communications has grown into the sixth largest defense company in the United States, and is a leader and prime defense contractor in Intelligence, Surveillance and Reconnaissance (ISR), secure communications, government services, training and simulation and aircraft modernization and maintenance.

Headquartered in New York City,

L-3 Communications has over 60,000 employees in 98 different business units. Today, L-3 Comm is recognized as the:

- Largest provider of training systems for tactical fixed- and rotary-wing aircraft, marksmanship and driving systems as well as information technology and computer-based training;

- Leading provider of aircraft modernization and support for military and training aircraft and helicopters both domestically and internationally; and
- Major provider of homeland defense products and services, particularly in the areas of aviation, port, maritime and border security, law enforcement, first responder equipment vehicles and crisis management.

For more information, go to their web site at: www.l-3com.com.

ISR: Challenges and Future (cont)

(from pg 1) note, that the Intelligence Community must rise to the challenge, as its track record for predicting what the future holds is not good. It is this uncertainty of the security environment, coupled with the evolution of technology, proliferation of information flow, and shrinking of decision cycles, which is fueling a need for change in ISR. He stressed that the integration of intelligence disciplines is key to moving beyond traditional “stovepipes.” He pointed out that through its merger of ISR and the establishment of “one-stop shopping” for intelligence, the Air Force had made progress towards eliminating source-centered intelli-

gence. However, Gen Deptula was quick to point out that the Navy is ahead of the game through its efforts to combine ISR and operations (e.g., hunter-killer submarines). His closing points focused on a need for ISR to become “indivisible.” That is, providing timely and accurate intelligence to decision makers to enable, quick, and effective decision making. Stressing that today’s leaders need “knowledge before power,” he challenged: quit looking at ISR as a support tool of operations, but to consider it an integral part of operations. ISR effects and capabilities (versus platforms and funding sources)



Rick Driesbach, Chapter President, presents Chapter Coin to Marine Jr. ROTC Color Guard member.

must drive the effort to satisfy the intelligence needs of joint decision makers. He said this won’t be easy, and it will upset “apple carts;” but if the US does not do it, our adversaries surely will, and we have too much at risk to let that happen.

AFA Tennessee Valley’s Community Partners

Beason & Nalley, Inc.
www.beasonnalley.com

Bevilacqua Research Corp
www.brc2.com

Cobham/Sparta Corp
www.cobham.com

Davis Strategic Innovations, Inc.
www.davisdsi.com

Decisive Analytics Corp.
www.dac.us

DMD, LLC
www.dmdgroupinc.com

GATR Technologies
www.gatr.com

L-3 Communications
www.L-3com.com

Lamar Advertising
www.lamar.com

ManTech International /
 NeXolve Corp
www.mantech.com

Lockheed Martin
www.lockheedmartin.com

Mercedes-Benz of Huntsville
www.mercedesbenzofhuntsville.com

Qualis
www.qualis-corp.com

Redstone Federal Credit Union
www.redfcu.org

Serco, Inc,
www.serco-na.com

U.S. Space & Rocket Center
www.spacecamp.com/museum