

NTSA's Training Industry *news*

IN THIS ISSUE

- 1 Current News
- 2 President's Notes
- 3 The Global Marketplace
- 6 ITEC 2008
- 6 Who's Where
- 7 Training & Simulation Report
- 8 Contracts
- 9 Major Program Report
- 12 NTSA Corporate Members

Current *news*

The Netherlands Extends Mission

Reprinted from *Jane's Defense Weekly*

The Netherlands has decided to extend its contribution to the NATO-led International Security Assistance Force in Afghanistan by another two years.

Due to formally end its present commitments on August 1, 2008, the Dutch forces will now stay in country until August 1, 2010, when they will start withdrawing from their locations in the Uruzgan province, Kandahar Airfield and Kabul. The government stated on November 30 that by the end of 2010 "all Dutch soldiers will be home."

At present, the Netherlands is the lead nation in the Uruzgan province and has 1,649 military and civilian personnel (mainly reservists) operating under International Security Assistance Forces command.

USAF Grounds Older F-15s Again

Reprinted from *Jane's Defense Weekly*

The U.S. Air Force announced that its Air Combat Command fleet of Boeing F-15A to F-15D model combat aircraft have been grounded for structural inspections—a week after they were declared safe and returned to flight status.

This latest grounding follows the November 27 release of the finding of the investigation into the 2 November F-15C crash that caused the U.S. Air Force's entire F-15 fleet to be stood down.

Based on the findings, the Air Combat Command has decided that additional inspections are required on its A to D fleet. The F-15E Strike Eagle is not included in this latest grounding.

According to the U.S. Air Force, Gen. John D.W. Corley, commander, Air Combat Command, has also recommended "the stand down of all other similar model aircraft in other air force major commands."

A metallurgical analysis of the F-15C that crashed on November 2, 2007, has drawn attention to the upper longerons (molded metal strips of aircraft fuselage that run from front to back) to the rear of the canopy of the aircraft that appear to have

cracked and failed. U.S. Air Force technical experts are now recommending a specific inspection technique for this area.

Helo Fleet Upgrade Could Conflict with FCS

Reprinted from *Aerospace Daily & Defense Report*

U.S. Army plans to modernize or replace its aging helicopter fleet from now through 2030 could run into a money crunch as the service simultaneously invests heavily in the Future Combat Systems program, according to a new congressional study.

The Congressional Budget Office, in a December 3 report, estimates the helicopter modernization program could average \$3.3 billion a year through 2030. That's more than the \$2.2 billion, on average, spent annually by the Army between 1986 and 2005. But starting in 2020, those costs will bump up against the Future Combat Systems program, which might mean fewer new aircraft or new ones with less capability.

Most of the 3,500 helicopters in the Army's current fleet already have exceeded or soon will reach ages greater than what the Army considers practical. Over the next decade, the Army plans to replace the UH-1 Huey utility helicopter with the UH-72A Lakota light utility helicopter. UH-60A/L Blackhawk utility helicopters would be upgraded to the improved M-model configuration. And the CH-47D Chinook cargo helicopter, the Army's largest, would be upgraded to the newer F-model.

U.S. Army Aims to Fill Info Tech Requests Fast

Reprinted from *Defense News*

U.S. Army program officials have a new deadline for getting requested information technology to soldiers: 120 days, far faster than today's 12 to 18 months.

"This is a vision to deliver incremental capability to the war fighter. We will respond to requirements for capabilities we receive from a council of Army acquisition chief information officers," said Gregg Judge, deputy product manager for the Army's AcqBusiness, an acquisition office set up in August 2006 to find

Current News cont. on page 4



A non-profit organization that serves the interest of the simulation, training services, training support, and computer-based training systems industries.

President's *notes*

Rear Adm. Fred Lewis, USN (Ret.)

For NTSA Members:

It has by now become traditional for I/ITSEC to set new records each year, and I/ITSEC 2007 was no exception. From almost any meaningful perspective—number of exhibitors, net floor space, number and quality of Special Events, or papers presented, and in all aspects of organization and execution, we reached yet another high water mark last November in Orlando. A large number of those who work hard and creatively to insure the success of every I/ITSEC event are volunteers. Balancing demanding military, government and industry job responsibilities with the often extensive periods of work necessary to insure that each I/ITSEC succeeds beyond expectations can be challenging and stressful. Further, they make these personal and professional sacrifices not from any hope or expectation of high recognition or personal aggrandizement, but because they understand the vital contribution our technology is making to the safety and effectiveness of our warfighters and others potentially in harm's way. They consider it honor enough to make this contribution to those who contribute so much for us.

While the importance of I/ITSEC and the technology it seeks to advance is obvious, it is no less clear that this field, as with all others dependent upon advanced research and technology, is being imperiled by an ominous trend. According to a recent report by the National Academy of Sciences, "fewer than one-third of U.S. fourth grade students performed at or above a level called 'proficient' in mathematics". Alarming, about one-third of all fourth graders and one-fifth of eighth graders lacked the ability to perform even basic mathematical computation. "In 1995 (the most recent data available), U.S. 12th graders performed "below the national average of 21 countries on a test of general knowledge in science and mathematics," according to the report, which also states that American youth spend more time watching television than in school. Looking at higher education, the report states: "In South Korea, 38% of all undergraduates receive their degrees in natural science and engineering; in France, 47%, in China, 50% and in Singapore, 67%. In the U.S., the corresponding figure is 15%". Recently, we have been hearing much about the fact that per capita income, adjusted for inflation, has stagnated in the U.S. in recent years. When one considers that as much as 85% of increased growth in U.S. per capita income is due to technological change, one begins to get a feel for the implications of the problem. In a country which spends more on tort litigation than on research and development (again, according to the NSA report),

the reasons for our having become a net importer of technology for the first time in American history are clear. Yet, in this election year, the precipitous decline in the sciences and resulting drop-off in American competitiveness don't seem to have resonated. Living on borrowed time—loaned us by the once-dynamic scientific and technological base of the post-WWII era is, by definition, a finite proposition. Must we wait until the U.S. becomes a nation of bankers, lawyers and service industry workers (Wal-Mart is now our largest employer) before we wake up, possibly too late?

I believe the time to act is now, before the situation becomes irredeemable. While our primary and secondary educational systems are (appropriately, I believe) largely in the administrative hands of state and local entities, all jurisdictions should have little difficulty in agreeing upon and (with adequate dedication of national resources) implementing a series of commonsense measures such as those put forward in the NAS study. A national campaign to recruit and train thousands of additional science and mathematics teachers (should some not come from retired military?) as well as in some cases, badly needed additional training of current teachers to insure excellence, would certainly assist in redressing an imbalance on the "supply side" of the equation. As for the "demand" component, the report suggests enhanced scholarship programs and making AP and IB courses more accessible. Industry could do its part to provide incentives for concentration in the sciences by providing scholarships to students who focus on the "hard" sciences in secondary school to enable them to later pursue undergraduate and graduate degrees.

Obviously, these problems and potential solutions are pivotal to our community of practice. While we welcome ever-increasing international participation in I/ITSEC and even as we seek to strengthen the International Training and Simulation Alliance, we recognize that the health of the U.S. simulation training industry, as robust as it is today, cannot endure without an infusion of gifted, dedicated, and home grown young scientists and engineers. This is why we at the National Training and Simulation Association, along with the Congressional Modeling and Simulation Caucus, are redoubling our efforts to attract the interest and attention of young people to our activities and hence to our community. In the next several years, we will be expanding our outreach efforts and developing new initiatives to help guarantee that the generation which has grown up alongside high technology becomes fully involved in forging its future, for the good of us all.



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The Global marketplace

South Africa Orders Simulators

Reprinted from *Jane's Defense Weekly*

ThoroughTec has won a ZAR88.5 million (\$12.6 million) contract to design, develop and manufacture training simulators for the South African Army's new Badger infantry combat vehicle. The seven-year contract was awarded by Denel Land Systems, which is the prime contractor for the Badger project. It covers the delivery of 60 Badger simulator systems (turret and driver sets) and eight instructor stations.

The turret simulators will be delivered in five variants to match the five turret variants (section carrier, fire support vehicle, mortar carrier, anti-tank missile carrier and command vehicle). The Badger simulators will use ThoroughTec's CyberWar software, which will include typical peace-support operations scenarios. The Badger simulators will be used by the 1st South African Infantry Battalion, which serves as the mechanized infantry "center of excellence".

They will most probably be installed in a new building adjacent to the simulation center of the School of Armor, which is close to 1st South African Infantry Battalion lines inside the main Tempe base in Bloemfontein. That center already houses the simulators for the Olifant main battle tank (one squadron), Rooikat armored car (one squadron) and Ratel ZT-3 tank destroyer (one troop), which will facilitate integrated training and doctrine development. There is a long-term concept to link these simulators with a tactical Rooivalk simulator at 16 Squadron at AFB Bloemfontein.

Durban-based ThoroughTec has developed the Olifant, Rooikat and ZT-3 simulators for the South African Army, and has also developed and delivered a range of driver training and operator training simulators for military and civilian applications.

Norway Seeks to Soothe U.S. Fears

Reprinted from *Defense News*

Norway is trying to soothe U.S. officials who fear the F-35 Lightning II will be squeezed from consideration for the Norwegian Armed Forces \$8 billion fighter replacement program. The F-35 is competing against the Swedish-built JAS

Gripen-N for the 60-plane purchase, and a decision is expected by the end of 2008.

The American government's concern has been expressed in communications between the Pentagon and Norway's Ministry of Defense since January 1, said a senior Ministry of Defense source.

In a bid to reassure the United States and address its concerns, Defense Minister Anne Grete Stroem-Erichsen denied that the government had already decided on the type of fighter aircraft it wanted to buy, informing Cabinet colleagues on January 7 that no decision has been made and that the contest remains "very much open."

Rolls-Royce Open Overseas Engine Plants

Reprinted from *Jane's Defense Weekly*

Rolls-Royce announced plans to invest \$307.8 million in two new aero-engine facilities in Singapore and the United States over the next five years. The facilities are intended to help the UK engine maker manage increasing new orders and reduce its exposure to the weakness of the U.S. dollar.

"Over the last decade, Rolls-Royce has established a strong position in global markets" the group stated. "In the light of this success, the company is investing in a new capability in order to meet the increasing needs of its global business and its growing customer base around the world."

The UK group's decision to locate facilities in Singapore and Virginia has been "driven by three strategic considerations: the attractions of locating major facilities close to customers in two of the largest and fastest-growing aerospace markets in the world; the business continuity benefits that will arise from locating the assembly and test of Trent engines on two continents; and a reduction in the company's exposure to the dollar."

Rolls-Royce is partnered with General Electric to develop the F136 engine for the F-35 Joint Strike Fighter program, as an alternative to the Pratt & Whitney F135. The group is also developing the engine-driven fan and swivel nozzle for the aircraft's short takeoff vertical landing variant.

Global Marketplace cont. on page 10

Current News from page 1

and deliver technologies to the war zone.

The new mandate was issued in September by Lt. Gen. Ross Thompson III, military deputy to the assistant secretary of the Army for acquisition, technology and logistics.

"I did tell them I want to leverage the capability AcqBusiness has" to find and develop technologies for soldiers, Thompson said. "I think across the board, there are great technologies out there, and we are pulling in the right ones in a collaborative way."

AcqBusiness will find and buy commercial technologies.

Northrop Grumman Unveils Virtual Bomber Concept

Reprinted from *Aerospace Daily & Defense Report*

Northrop Grumman demonstrated its new high-energy laser bomber concept September 26-27 in a wargame exercise that evaluated advanced capabilities and concepts for the next-generation long-range bomber.

"Wargaming ... [involves] fleshing out various technologies that might enhance the bomber mission ... in a way that's consistent with studies we've done [on the next-generation long-range bomber]," said Charles Boccadoro, Northrop Grumman's director of future strike systems. Although it wasn't the company's "principal intention," he added, "[the wargame] helps showcase and feed into the upgrade road map for the B-2."

The advanced concepts event, an annual virtual wargaming exercise, was staged by the U.S. Air Force Research Laboratory's Directed Energy Directorate. "We had the [bomber pilots] look at their present missions and what they would want in a next-generation bomber," said Robert Smerke, Northrop Grumman's principal investigator for operations and simulation analysis. "One of the [features they would like] is a high-energy laser; another is better self-defensive [and offensive] capabilities."

The high-energy laser bomber concept was simulated using a reprogrammed cockpit simulator at Northrop Grumman's facility in El Segundo, California. During the advanced concepts event exercises, the high-energy laser bomber participated in a range of missions including using Army tactical missile systems to attack maritime targets; small diameter bomb IIs to attack fixed, high-value land targets; and massive ordnance penetrators to attack hardened targets like bunkers and tunnels.

U.S. Will Account for 73 Percent of World UAV R&D Spending

Reprinted from *Aerospace Daily & Defense Report*

In its most recent evaluation of the global market for unmanned aerial vehicles, consulting firm Teal Group predicts the U.S. will account for 73 percent of worldwide unmanned aerial vehicle research, development, testing and evaluation spending and 59

Current News cont. on page 5

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Current News from page 4

percent of procurement over the next decade.

“The most significant catalyst to this market has been the enormous growth of interest in unmanned aerial vehicles by the U.S. military,” says the November 29 report. “Unmanned aerial vehicles are a key element in the [net-centric and information warfare] revolution.”

In 2008 alone, Teal forecasts the production value of unmanned aerial vehicles in the U.S. will surpass \$1 billion, representing 1,448 unmanned aerial vehicles. Next year also should see research and development spending by the U.S. reach \$1.4 billion, compared to \$250 million spent by the rest of the world, the study says.

Until recently, the report notes, the unmanned aerial vehicle market was relatively small, accounting for less than \$100 million worldwide in the mid-1990s. “It has expanded ten-fold in less than a decade” the report says, “and currently about \$3 billion is spent annually worldwide on unmanned aerial vehicles.”

UAV in Full-Rate Production

Reprinted from *Defense News*

The U.S. Air Force recently approved full-rate production of the backpack-sized Wasp III unmanned aerial vehicle, the aircraft’s manufacturer, AeroVironment, announced January 3. The Wasp III is part of the Air Force’s battlefield air targeting micro air vehicle program that is intended to allow battlefield airmen to look for enemy targets beyond their line of sight.

The Wasp III has a wingspan of 29 inches, weighs one pound, and carries forward- and side-looking color cameras. The aircraft can fly for up to 45 minutes and up to five kilometers from the control transceiver. It can be controlled manually or set on autopilot.

The Wasp III will eventually become part of the standard kit carried by Air Force ground combat controllers as they go on missions with other U.S. special operation forces, an Air Force Special Operations Command official said in October. The unmanned aerial vehicle was developed through a program with the Defense Advanced Research Projects Agency, he said.

In November, the U.S. Marine Corps awarded a \$19.3 million contract to buy Wasp III systems under the Air Force battlefield air targeting micro air vehicle contract, AeroVironment said.

U.S. DoD, Intel Agencies Forge Joint Acquisition

Reprinted from *Defense News*

Senior Pentagon and U.S. intelligence officials are finalizing the first formal agreements governing how the two communities work together on major acquisitions. Deliberations over the contents of the sweeping pacts could be wrapped up in the next few months, according to sources.

One Pentagon official said the thorny issues under discussion include how policies put forth by the office of the directorate of national intelligence (DNI) affect the Defense Department’s intel agencies, and how the two organizations will make milestone deci-

sions on joint programs.

Sources said the acquisition push is a top priority of James Clapper, defense intelligence undersecretary, a retired Air Force three-star general, and DNI Michael McConnell, a retired Navy vice admiral. The joint acquisition guidelines will plug a policy hole left by the 2004 Intelligence Reform and Terrorism Prevention Act, which created the DNI’s post and outlined its authority.

Raytheon Acquires Robotics Technologies From Sarcos

Reprinted from *Defense Daily*

Raytheon has acquired robotics technologies and capabilities from Sarcos Inc., which does research and development in advanced robotics systems for industry and entertainment, medical devices, and mechanical and electrical microsystems.

Terms of the deal were not disclosed. Sarcos, based in Salt Lake City, has 56 employees. Its customers include the Defense Department and the Defense Advanced Research Projects Agency. The company has developed mechanical systems with a “human level of dexterous control,” Sarcos says on its web site.

“With Sarcos we are gaining world-renowned research and development capabilities in robotics technology, providing us with new capabilities to expand our position in this developing growth area,” Dan Smith, president of Raytheon Integrated Defense Systems, said in a statement.

Coast Guard Eyes Restructured Acquisition Efforts, Approach

Reprinted from *Aerospace Daily & Defense Report*

The U.S. Coast Guard’s embattled Deepwater recapitalization program will be revised over the next several months as the Homeland Security Department’s armed service adjusts to aborted unmanned aircraft and patrol boat efforts while trying to meet increased post-9/11 requirements.

The service, which is standing up its own acquisition directorate, likely will adjust and even increase planned orders for manned aircraft, patrol ships and information technology equipment. It also could expand the number of contractors it works with directly to provide platforms and systems.

The moves come as the service seeks to show progress on internal and contracting reforms implemented since failed vertical takeoff unmanned aircraft and converted patrol boat programs emerged last year, as well as concerns over C4ISR systems being pursued.

Navy Wants Laser Weapons Acquisition Program by 2012

Reprinted from *Aerospace Daily & Defense Report*

The U.S. Navy is working to build a program that would make laser weapons onboard ships a reality, a service official said. Programs are being evaluated in the near-, mid-, and long-term time frames, said Navy Capt. Dave Kiel, program manager for the Navy’s directed energy and electric weapons office. “By 2010, I want to have an advanced component development prototype,” Kiel said. “By 2012,

Current News cont. on page 9

ITEC 2008

The following quote, which prominently appears in the ITEC 2008 Program brochure, by Rear Admiral Fred Lewis, USN (Ret.), NTSA President, is an important summation of the importance of ITEC to not only the American M&S community but also to our friends and allies.

"The importance of being at and participating in ITEC increases in significance each year as the users and manufacturers of modeling and simulation technology not only need but also demand increased performance. One only has to observe the employment of advances in gaming technology to appreciate the ever expanding applications of modeling and simulation. In the ongoing war on terrorism the adaptability, agility and energy of the simulation and training industry to respond to the threat further validates the growing need for the ITEC forum, in Europe, to focus the conversation and to demonstrate the technology. It is a place where the senior leaders in government and defense organizations can, first hand, discuss the partnership arrangements for combined and joint operations to achieve common strategic objectives. Here, at ITEC, the user and the provider have the unique opportunity to clarify the training requirement and its response. No other event in Europe offers such an opportunity. It must not be missed! I look forward to welcoming you to ITEC 2008."

There are frequent comparisons between I/ITSEC and ITEC, a conversation that has been extant since the first ITEC in Birmingham, England in 1990. Both events are complementary to each other, yet delegates and visitors will observe changing audiences and program emphasis while encompassing the broad range of M&S technology. ITEC, not as large as I/ITSEC, provides a more intimate setting for networking and meeting new people. One person even has been quoted as stating, "I/ITSEC is where you kick the tires and ITEC is where you close the deal." And many arrangements have been concluded over a vibrant landscape in these nineteen years that include, France, Switzerland, Luxembourg, The Netherlands, Germany and now Sweden.

Why Sweden? This is the first venture into Scandinavia and it reflects an energetic and forwarding thinking marketing effort on behalf of the ITEC Board of Directors and Reed Exhibitions Ltd, the principal ITEC organizer along with its partner shareholder NTSA. As an indicator, Nina Bushell, Reed Exhibitions ITEC Event Manager recently stated, "We are pleased with the way ITEC is shaping up for this year. With four months to go we have sold more than ever before in the history of ITEC, and space is still selling fast."

Just look at the key players in the 2008 exhibition: Thales, BAE Systems, Meggit Defence Systems, Augusta Westland, Rockwell Collins, SAIC, Lockheed Martin, Saab Training Systems AB, 3D Perception, EADS, BT, Kongsberg Defence & Aerospace AS, CAE, and Rheinmetall Defence Electronics GmbH. Then reflect on the response from previous years: "ITEC produced a good number of excellent sales contacts for us, both in 2006 and 2007. We will definitely be exhibiting in Stockholm next year." CALTRIX TECHNOLOGIES; "We probably met every important decision maker who attended the show with a direct interest in our products." ALELO INC.; "ITEC 2007 was extremely well attended by both visitors and exhibitors. We had a very positive experience throughout the entire event." QUADRANT SYSTEMS. It is obvious that ITEC is

ITEC 2008 cont. on page 10

Who's where

■ DynCorp International named retired Army Chief of Staff **Gen. Peter Schoomaker** to its board of directors. Schoomaker, the 35th Army Chief of Staff, spent 31 years in a variety of command and staff assignments with both conventional and special operations forces. Schoomaker serves on the advisory boards of Camber Corporation and EWA-GSI. He also serves on the board of directors of CAE USA, the U.S. subsidiary of CAE Canada.

■ **Gen. James Mattis**, USMC, now leads U.S. Joint Forces Command and NATO Allied Command Transformation. In a ceremony November 9, 2007, aboard the *USS George Washington* in Norfolk, Virginia, Mattis picked up the reins from retiring Air Force **Gen. Lance Smith**. Shipboard ceremonies were attended by NATO Deputy Secretary **General Amb. Claudio Bisogniero**, Deputy Secretary of Defense **Gordon England**, and **Adm. Mike Mullen**, chairman of the Joint Chiefs of Staff.

■ **Dr. Michael van Lent** will join Soar Technology Inc. in March 2008 as the company's chief scientist. Dr. van Lent will join the company from Institute for Creative Technologies at the University of Southern California, where he was associate director for games research.

■ **Darryl Davis** was named president, Advanced Systems for Boeing Integrated Defense Systems. Davis will be responsible for working with the precision engagement and mobility systems, network and space systems and support systems businesses to develop cross-cutting concepts and technologies to respond to evolving needs of customers and to address potential new markets. Boeing also announced Advanced Systems headquarters will move from Long Beach, California, to St. Louis, Missouri, where integrated defense systems is headquartered.

■ **Steve Detro** has joined L-3 Link Simulation and Training as director, Air Force business development. He will be responsible for working with Air Force customers on a range of manned and unmanned aircraft training and simulation programs. He was vice president, business development for Quantum 3D. Detro also serves as chairman of the National Training and Simulation Association's executive committee and conference chairman emeritus of the Interservice/Industry Training, Simulation and Education Conference.

Training & Simulation *report*

Canadian C-130 Simulation

Reprinted from *Canadian Defense Review*

Outside of Toronto at CFB Trenton Canadian Air Force personnel are learning how to fly their airplanes before they ever sit in one. The Canadian Forces are leading the world in using simulators to train not only flight crews but maintenance crews as well.

At Trenton, the Canadian Air Force uses a complex flight simulator for the C130-H aircraft. The simulator provides “out-the-window” scenes, including pushback, taxiing, takeoff, climb, cruise, descent, visual approach, instrument approaches, and landing, in virtually any weather condition, and at any time of the day or night to provide visual cues, in real-time, to the simulator flight crew. The result? Better crews — faster.

According to Paul Lindahl, president and chief executive officer of Vancouver’s NGRAIN Corporation, operational tempo will drive the training requirements of Canadian Armed Forces well into the next decade.

CAE Launches Presagis Modeling and Sim Company

Reprinted from *Canadian Defense Review*

CAE has unveiled Presagis, its new modeling and simulation software company. CAE combined its acquisitions of Engenuity Technologies, MultiGen-Paradigm and TERREX and an existing CAE commercial-off-the-shelf software team, to create an independent company specializing in commercial-off-the-shelf modeling and simulation software. As part of CAE’s military simulation products business, Presagis solidifies CAE’s position as a significant player in the commercial-off-the-shelf modeling and simulation market.

“Presagis is in line with CAE’s long-term strategy to create a single, unified, commercial-off-the-shelf simulation software business,” said Marc Parent, CAE’s group president, simulation products and military training and services. “The technology depth and international reach of this commercial-off-the-shelf business further extends CAE’s position as a global market leader in the modeling and simulation market.”

USCG Accepts Command and Control Shore Installation

Reprinted from *Aerospace Daily & Defense Report*

In December, the U.S. Coast Guard accepted the first shore installation of its national security cutter software suite at its Petaluma Training Center in California. This marked the final phase of a \$20 million command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) simulator.

According to software designer Lockheed Martin, the suite in Petaluma provides a near-duplicate environment to the one of the national security cutter, providing crews training there with a real feel for what the ship will offer.

Additional C4ISR suites mirroring those in Coast Guard headquarters in Miami and San Juan also were accepted at the training center. The software is similar to that installed on the national security cutter save for some of the ISR elements. Training on this system provides crews an idea of what they’ll encounter when using shore-based installations in Miami and San Juan.

The completion of the training suite marks a milestone in the Coast Guard’s \$24 billion, 25-year modernization and Deepwater recapitalization plan. To date, more than 80 Coast Guard and 20 U.S. Navy students have attended nine courses at the new facility and the first-of-its-kind team training was convened in December for 30 members of the first national security cutter, *Bertholf*.

Training Focus Needs to Be Honed

Reprinted from *Jane’s Defense Weekly*

Proprietary training solutions that do not allow networked, distributed training are no longer acceptable according to Dr. Paul Mayberry, deputy undersecretary of defense for readiness. Speaking at the Interservice/Industry, Training, Simulation and Education Conference and Exhibition, held in Orlando, November 26-29, 2007, Mayberry said, “Proprietary solutions are a non-starter from the beginning and will not fly.”

As part of a senior officers’ panel that included general and flag officers from the service environments, Mayberry observed that predeployment training needed to be more focused on what was needed, quoting a company commander who contrasted the 9:1 ratio of kinetic to non-kinetic training he had undertaken before deployment, with the reverse ratio he had experienced in the theater.

Common themes at the conference included training for deployed forces, training relevant to operations and the fundamental importance of cultural and language training. Mayberry also emphasized how important this was for “the strategic squad leader,” whose interaction with local communities could have an effect out of proportion to his position in the chain of command.

School Violence Trainer Delivered to Task Force

ETC Press Release dated December 12, 2007

Environmental Tectonics Corporation’s (ETC) simulation division delivered a new training scenario to the Southeastern Pennsylvania Regional Counterterrorism Task Force for their advanced disaster management simulator, ADMS-COMMAND.

Originally delivered in 2006 with the ability to train multidisciplinary first responder teams in dealing with many types of transportation-related accidents, hazardous material release and chemical, biological, radioactive, nuclear and explosive disasters,

Training & Simulation cont. on page 8

Training & Simulation from page 7

the counterterrorism task force's ADMS-COMMAND system has now been upgraded with the ability to train special weapons and tactics personnel in mitigating a hostage situation at a suburban high school.

The scenario, designed by counterterrorism task force subject matter experts with ETC's advanced disaster management simulator curriculum developers, is an open-ended and dynamic simulation of a six-classroom high school building with over 100 students, teachers and administrators. The scenario presents a number of armed terrorists who have taken the school hostage. Responders must react appropriately and mitigate the developing situation to best avoid and minimize casualties. Since no advanced disaster management simulator scenarios are pre-scripted, the instructors have the ability to customize exercises on the fly to allow for different types of situations, including varying the number of armed hostage-takers, their tactics, the number of hostages and number of casualties. The virtual hostage-takers and hostages can be controlled by mitigation efforts. At any time, instructors can make injects like terminating a hostage, cutting facility power, changing weather or evacuating rooms. This scenario is also useful for training school staff and management teams in decision making under stressful conditions while working within emergency management procedures.

First F-15E Mission Training Center

From Boeing Press Release dated November 2007

The Boeing Company has opened its first F-15E mission training center for the U.S. Air Force's 366th Fighter Wing at Mountain Home AFB, Idaho. The center will provide aircrews with high-fidelity, simulator-based training without the material and personnel costs associated with training on operational aircraft.

The training center provides two high-fidelity, dual-cockpit F-15E simulators with a 360-degree visual system, a robust synthetic environment as well as instructor/operator and brief/debrief stations. The simulators, enhanced with a head-tracked area-of-interest display visual system, can be operated individually or linked to provide two- or four-ship training within the mission training center. They also can be linked locally with two medium-fidelity F-15E manned combat stations to allow local four-ship training. After a few months of operation, the mission training center will join the Air Force's distributed mission operations training network.

Under the F-15E mission training center contract, Boeing will open two additional F-15E mission training center sites in the near future, at Seymour Johnson AFB, North Carolina and at Royal Air Force Lakenheath in the United Kingdom. Mountain Home and Seymour Johnson each will receive a second F-15E mission training center in 2008.

Contracts

Army Logistics

Reprinted from *Aerospace Daily & Defense Report*

Northrop Grumman was awarded a U.S. Army logistics contract worth up to \$600 million over seven years to help the far-flung land war service keep track of its equipment and parts. Under the global combat support system-Army (field/tactical) program contract, Northrop Grumman's Mission Systems Sector will implement an enterprise system capable of providing the current status of all Army equipment and assets.

Boeing to Build Avionics Ring for NASA's Ares I Launcher

Reprinted from *Aerospace Daily & Defense Report*

Exploration systems managers at NASA have picked Boeing to build the instrument unit avionics on the next-generation Ares I crew launch vehicle that will carry the planned Orion crew exploration vehicle to orbit. The total value of the contract if all options are exercised is roughly \$799.5 million. The base contract covers one instrument unit avionics ground test article, three flight-test units and six production flight units supporting flight-tests and missions through 2016.

Raytheon Wins \$1.3 Billion UK e-Borders Contract

Reprinted from *Defense Daily*

Raytheon was selected by the United Kingdom's Home Office to receive a \$1.3 billion contract to develop and install a border security system that will allow British authorities to check the background of persons entering and exiting the country against various watch lists. Raytheon beat British Telecom for the e-Borders contract. In two years, Raytheon's Trusted Borders team is expected to have the back end processing system in place to allow border management agencies to receive information on passengers and crew entering and exiting the country.

Under e-Borders, UK customs and immigration agencies will receive passenger and crew data provided by air, sea and rail carriers in advance of their travel. The program supports an intelligence-led approach to border security by identifying those involved in abuse of UK immigration laws, serious and organized crime, and terrorism, Raytheon said.

Major Program *report*

New Cyber Command to be Huge Business Opportunity

Reprinted from *Aerospace Daily & Defense Report*

U.S. Air Force leaders working on the nascent cyber command believe there will be a “huge” need for contracted services to support the embryonic effort as it faces personnel, technology and funding headwinds. Still, plans are undetermined and genuine, robust budgets remain years away as officials have until at least October to identify programs and until October 2009 before the command must be fully operational.

“There’s going to be a huge contracting requirement,” said Maj. Gen. Charles Ickes II, Air National Guard special assistant to the deputy chief of staff for operations, plans and requirements. “I don’t think anyone can tell you how big,” he told the Northern Virginia chapter of the Armed Forces Communications and Electronics Association’s Air Force Information Technology Conference.

Leading issues entail situational awareness over space assets like satellites and communications links, as well as the ability to quickly collect, analyze and diffuse information about them, according to officials. “Preservation” of space-related capabilities also will be a major concern.

“We’ve still got a ways to go in the defensive counter-space mindset and in building the equipment we need to know what’s happened and when,” said Brig. Gen. Jay Santee, vice commander of 14th Air Force for Air Forces Strategic Space.

Appropriations Report Puts USAF on Track to Buy More F-22s

Reprinted from *Defense Daily*

Lawmakers are supporting the Air Force’s position that it needs 20 more F-22 Raptor stealth fighter aircraft, urging the service to extend its current multiyear contract with Lockheed Martin. Language in the conference report on the FY08 Defense Appropriations Bill suggests that the service pull \$526 million in fiscal year 2009 funding intended to shut down the jet’s production line and apply that to the purchase of specialty metals for an additional 20 planes.

If the service can’t extend the F-22 purchase, the specialty metals purchased this year could be used by the F-35 Joint Strike Fighter program, also built by Lockheed Martin, said the conferees.

The Air Force’s decision to ground F-15 aircraft after a training exercise crash supports the appropriators’ push to keep the production line open past 2009, said Rep. Bill Young (R-FL), the ranking member of the House Appropriations defense subcommittee. He added that he supports multiyear procurement of successful programs like the F-22.

Raptor Rebirth

Reprinted from *Aerospace Daily & Defense Report*

December was a good month for the F-22 Raptor. Air Combat

Command declared full, worldwide operational capability for the 40 F-22s of Langley Air Force Base’s integrated 1st Fighter Wing and Air National Guard 92nd Fighter Wing. The two units have 80 trained pilots. Meanwhile, 50 lawmakers have written to Defense Secretary Robert Gates to press for continued production of the F-22 beyond the 183 currently approved. Meanwhile, manufacturer Lockheed Martin will sustain the aircraft’s weapon system under a \$512 million contract announced December 13.

Current News from page 5

I want to have a full-fledged acquisition program.”

Kiel outlined the Navy’s laser weapons spiral path vision December 12 at a conference sponsored by the Institute for Defense and Government Advancement. He acknowledged that the Navy’s high-energy and free-electron laser “vision” is just that for the moment. Free-electron laser won’t appear until around 2010, Kiel said, with costs in the neighborhood of \$150 million or more.

CBO Predicts Growth in Unplanned Defense Spending

Reprinted from *Aerospace Daily & Defense Report*

The Congressional Budget Office has concluded that carrying out the Pentagon’s Future Years Defense Program will result in increased growth in both planned and unforeseen spending. In a December 2007 long-term projection regarding the Defense Department’s budget, CBO predicted that between 2014 and 2025 defense resources will total about \$521 billion annually, eight percent more than requested by the Bush Administration for 2008.

Potential unbudgeted costs increased CBO’s projected long-term demand for defense funding to about \$621 billion annually through 2025, a whopping 29 percent more than the administration’s 2008 budget request. CBO’s analysis of unbudgeted spending included potential escalation of development costs associated with new weapon systems, rising medical costs, and the continued global war on terror.

Operation and support activities—which cover military construction, personnel costs and equipment maintenance—also are at risk for growth, according to CBO. “Over the longer term, carrying out current plans would push operation and support funding to \$366 billion in 2025,” CBO said. “If unbudgeted plans are included, that figure would rise to \$426 billion.”

Part of the reason for the growth is an increase in the number of U.S. Army and U.S. Marine Corps personnel. The 2008 Future Years Defense Program shows an end-strength increase of 65,000 Army and 28,000 Marine Corps active duty personnel for the 2007-2013 period, the report said.

Global Marketplace from page 3

Israel Wants Squadron of F-35s Quickly

Reprinted from *Aerospace Daily & Defense Report*

Israel wants to keep its air force dominant by buying Lockheed Martin's F-35 Joint Strike Fighter, making it operational quickly and packing it with equipment designed exclusively for its own needs. Senior Israeli Air Force officials say they have an "understanding" with U.S. officials. Washington's representatives say there is no official change to Israel's program.

Israel's plan is to get more than 100 F-35s the minute they are available. Determinations on what's inside may be a battleground. "Israel has a very unique requirement; it doesn't operate in a coalition [and it has a] different kind of strategic relationship" to the U.S. than the other F-35 partners," said Tom Burbage, Lockheed Martin's F-35 vice president and general manager. However, he said the overseas release for the first export aircraft will be no sooner than 2014.

Israel's ambitions to integrate indigenous weaponry also are part of the problem. The weapons road map for the Block 1 through Block 3 F-35 standards has already been drawn up with no Israeli weaponry on the list. Partner nations are currently working on a list for Block 4, but there is pressure to cut weapons from the process rather than add them. Israel undoubtedly will want its F-35s to carry the Rafael Python 5 air-to-air missile and possibly its successor, as well as the Rafael Spice family of precision-guided weapons.

State Department Needs to Fix Inefficiencies

Reprinted from *Aerospace Daily & Defense Report*

A 20 percent rise in arms export cases, longer processing times and a 50 percent increase in the number of unresolved cases are

straining the State Department's arms export licensing process, a Government Accountability Office report found January 3.

The GAO review found procedural inefficiencies, short-comings in electronic processing and challenges in retaining a skilled work force are all behind problems at the State Department's Directorate of Defense Trade Controls.

GAO's analysis indicates that the directorate is taking increasingly longer to refer cases to other agencies or bureaus within the State Department for additional review. The wait grew from seven days in FY03 to 20 days during the first seven months of FY07. Additionally, "electronic processing has not been the promised panacea for improving processing times," the GAO report said.

Bush Signs Export Regulation Changes

Reprinted from *Aerospace Daily & Defense Report*

President Bush has ordered new directives that will "advance a more efficient and transparent export licensing process and enhance dispute resolution mechanisms," the White House announced January 22. The moves, which were expected, come as trade groups in Washington have pushed for regulatory and executive-branch changes since last year that would not run a Democratic-led legislative buzzsaw on Capitol Hill.

Despite boom times and record profit-making in recent years, U.S.-led business representatives maintain that international competition grows fiercer and the proposed changes would help U.S. companies remain ahead. Among the changes, the trade groups want quicker export approvals, and for the administration to hire additional licensing and agreement officers to ease processing delays, as well as develop new types of authorization for exports.

ITEC from page 6

providing a direct focused gateway into the European markets offering important business opportunities for NTSA member companies.

Sweden is in the heart of the most ambitious multinational training and simulation exercise for 2008 – Partnership for Peace Exercise – VIKING 2008. VIKING 08, the fifth in the series, is a distributed Command Post/Computer Assisted Exercise. These exercises, begun in 1999, have been an important aspect of joint training and the United States is a key player led by JFCOM. In addition to the significance of VIKING 08, ITEC is receiving exceptional representation from Swedish Industry and the Swedish Armed Forces have offered full support by joining the ITEC Conference Committee and leading the Senior Officer' Panel at the opening of the Conference. Just to indicate the level of participation in this panel, Major General Michael Moore, Chief of Development, Swedish Armed Forces is the senior host and Panel Chairman. The panelists are Admiral Luciano Zappata, Italian Navy, NATO, Deputy Supreme Allied Commander Transformation; Major General John Cooper, United Kingdom, Director General Training Support; Major General Agner Rokos, Denmark, Director Joint Force Training Centre located in Poland; Dr. James Blake, USA, PEO STRI; and Mr. Johan Ohlson, President, Saab Training Systems and Senior Vice President, Saab Group, Sweden.

The ITEC Conference Program is organized and managed by the European Training & Simulation Association (ETSA) whose Executive Director is Mr. Richard Curtis, UK. ETSA and NTSA are two of the key organizations that comprise the International Training & Simulation Alliance (ITSA), a worldwide network of training and simulation associations that share common goals. Rear Admiral Lewis is the Chairman of ITSA. Reporting to Mr. Curtis is the ITEC 2008 Conference Chairman, Mr. Paul Newman, Head Modeling & Simulation Coordination Office, NATO Research Technology Agency, France. Paul has been in that position since June 2005. He states, "We have listened to comments on the conference and that combined with the hard work by the Committee has ensured top quality speakers covering the full spectrum of defence training and education from across Europe and the rest of the world." Here is just a sampling of other key speakers: Mr. Dan Gardner, Director, Readiness & Training, OSD, USA; Mr. Gregg Knapp, Executive Director, JFCOM J7/JWFC, USA; Air Commodore Brian Newby, RAF, Director Flying Training, RAF Innsworth, UK; and Lieutenant General Sorin Ioan, Deputy Chief of General Staff, Romania.

As can be seen, the above brief overview of ITEC 2008 validates Rear Admiral Lewis' charge at the beginning of this article. Come and get the full experience. We hope to see you there! Register online at www.itec.co.uk

ITEC 2008 is the only conference and exhibition outside the USA, dedicated to defence training, education and simulation.

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Major General Michael Moore, Chief of Development, Swedish Armed Forces HQ, Sweden [Senior Host]



Admiral Luciano Zappata, Italian Navy, NATO, Deputy Supreme Allied Commander Transformation (SACT)



Major General John Cooper, Director General Training Support, UK



Major General Agner Rokos, Danish Army, Director, Joint Force Training Centre (JFTC), Poland



Dr James Blake, Program Executive Officer, Army Simulation, Training & Instrumentation Command, USA



Johan Ohlson, President, Saab Training Systems and Senior Vice President, Saab Group, Sweden

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