



THURSDAY, DECEMBER 1, 2005

## PEO STRI Delivers Winning Training to Warfighters

**"It is not proximity** to the fight but knowing that you make a difference to the fight no matter where you are that is important," Dr James Blake, Program Executive Officer for Simulation, Training and Instrumentation (PEO STRI) told the I/ITSEC Show Daily yesterday.

Every member of Blake's team of 664 military and civilian staff understands the contribution they make supporting the US Army and other Services—America's 'One Team'—in the Global War on Terrorism and preparing for future warfighting and peace support operations.

PEO STRI is responsible for 318,964 training devices deployed at 414 sites worldwide and in 20 foreign countries. In Fiscal Year 1999 (FY99) the then Simulation, Training and Instrumentation Command's budget was less than \$700 million. PEO STRI's budget was \$1.9 billion in FY05 and is expected to exceed \$2 billion in FY06.

The directive from the Army's leaders is that 'no soldier goes into harm's way untrained' and Blake is proud that PEO SRI has "always ensured that units have received the training required for operations."

To execute the Global War on Terrorism, the Army is leveraging the maximum training value from its existing facilities to ensure that all units are well prepared.

However, training is not limited to Soldiers rotating through static facilities in the US, Germany, Korea and other locations as characterized much of the service's training during the Cold War. Today, training support is also expeditionary in nature to ensure that training support

is delivered in theater. PEO STRI has personnel forward deployed with units on operations to provide daily feedback that helps identify training needs as early as possible.

To support Special Operations Forces in Afghanistan PEO STRI developed a Mobile Military Operations in Urban Terrain facility for installation at a former Soviet ammunition supply point. It required two months to clear the site of unexploded ordnance, then a PEO STRI team installed the training facility in 120 hours. The Training Improvised Explosive Device (inset) is another example of a rapid response to operational needs.

"We're Army but we support everybody," said Blake. He routinely meets with his counterparts in the other services to review training needs and decide which service is best placed to address these needs.

"We are no longer looking for perfect solutions. We're over that. We're looking for solutions good enough to meet Soldiers' needs today," said Blake.

He "works with other PEOs to develop the trainer solutions that they need" for their weapons and other systems. This "eliminates stovepiping and achieves early interoperability."

Training needs have been considered from the start of development of the Army's Future Combat System (FCS). "The Army's FCS Brigade Combat Teams will be the first units to have a fully embedded training capability," said Blake. Many training elements of the FCS will be fielded before the actual platforms.

"We already have the best trained Army in the world," noted Blake. "Extending embedded training to every soldier will make us an even better force."



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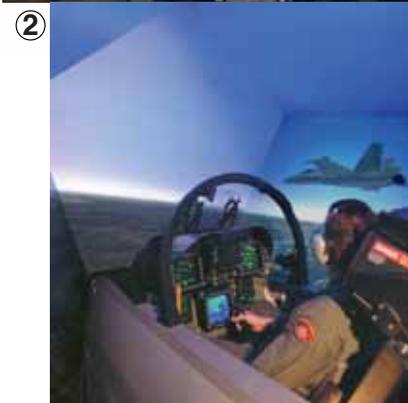


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# I/ITSEC 2005: It Keeps Getting Better

Once again this year's show has been a major success, bringing industry, government and the Armed Services together to discuss the important questions and to exhibit new solutions. "I/ITSEC is *the* most important, most significant training systems conference and exhibition in the world," observes Rear Admiral Frederick Lewis, US Navy (Ret.), President, National Training Systems Association.

As the *Show Daily* went to press, total attendance for the conference and exhibition was expected to be in excess of 16,000, and include representatives from over 40 countries. "It is an international event of great significance; significance in the fact that there is global interest in the technology and the utilization of that technology to train our warfighters," Lewis states, adding, "and we're seeing direct results from the utilization of this technology to enhance the readiness of our forces, particularly those forces that are engaged in combat operations. Right now, today, these technologies are playing a vital part in preparing them to participate in combat operations. So we're saving time, money, and lives."

This year the theme of the conference has brought the Services together and the focus on joint training has been one of the striking successes of the event. "The underlying inspiration behind that theme came from the US Army," Lewis says, "this

is the US Army's 'year' for I/ITSEC—it rotates between the services every year and this year the Army is the lead service. So, for quite a long time the Army has had this theme of 'One Army' and that theme is rolled into this notion of 'One Team. One Fight. One Training Future'."

What that simple statement encapsulates is joint operations. This year it has not been just the Army, the Navy, the Air Force, the Marine Corps, or the Coast Guard. "It's one team that is together fighting the Global War on Terrorism."

Lewis hopes that the conference has a lasting impact on this year's attendees. "I want it to be not one single impression, but a multi-faceted impression of the state of technology; that the technology is good; that it has been developed and progressed over time; and that it is going to continue to develop. I want them to have the impression that if they were here last year the technology is good but this year it's better. And next year it will be even better. And the year after that it will be better still," he states.

"That's the impression I want them to take away: that this is important work that's being done," he adds. "It's important not only in terms of training warfighters but

it is becoming pervasive in our society. Every American sees the results of the utilization of this technology every single day of their lives. It's transparent to them but it's there."

As a parting thought Lewis declares,

***"Some day, I want the senior leader of this country to ... say, 'Modeling and Simulation and the utilization of these technologies is absolutely essential to the economic health of this country'."***

**—RADM Frederick Lewis**

"Some day I want the senior leader of this country to stand up and say, Modeling and Simulation and the utilization of these technologies is absolutely essential to the economic health of this country. Because it is."

## SHOWDAILY

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## Today's Conference Highlights

Thursday December 1

### SPECIAL EVENTS

0800: Teaming Up to Standardize Sensor Simulations, Room W314 A-B

0830, 1330: Serious Games Solutions, Room W414

0930, 1330: Future Combat Systems, Exhibit Floor Booth #2045

1000: Artificial Intelligence, Intelligent Agents and Game technology, Room W314 A-B

1030, 1300, 1400: Joint Virtual Training Special Event, Exhibit Floor Booth #1431

1800: No Host Reception, The Rosen Centre Hotel

1900: Conference Awards Banquet, The Rosen Centre Hotel

### EXHIBIT HALL HOURS

0930-1500: *Level Two*

Cover photo supplied by PEO STRI.

# JWFC Head Sees Momentum in Joint Training

**As Commander of the** Joint Warfighting Center (JWFC) and Director of Joint Training for US Joint Forces Command (JFCOM), Marine Corps Major General Jon Gallinetti brings a strong 'team perspective' to his participation at I/ITSEC 2005.

"That was a great slogan this year: 'One Team. One Fight. One Training Future.'," he observes. "If we didn't have industry, if we didn't have all the services, working all

together on this, we wouldn't be where we are today. We need to keep on course, working all we can in the future to go ahead and increase those ties and to do that even better in the future."

Pointing to what he describes as "a momentum of joint training that is picking up dramatically," Gallinetti credits 'enablers and capabilities' inherent in the Department of Defense's Training Transformation, Joint National Training Capability (JNTC), Joint Knowledge Development and Distribution Capability, and Joint Assessment.

In the case of JNTC Gallinetti notes, "We marked Initial Operational Capability for JNTC in October 2004 and that's really

starting to mature—with accreditation and certification of events for both the Services and the Combatant Commanders. I think the 'business model' for that; the way it's handled; the way the resources are handled; the way the process action teams work; the way the decisions are made; has really brought a lot of 'buy in' from the Services. And I believe that will continue."

He is equally strong in his appreciation for the other enablers.

Referring to JFCOM's participation in I/ITSEC 2005 and the Joint Virtual Training Special Event, he notes the growth in sites and entities involved.

"But it's just reflective of what capabilities are out there and how the live, virtual, and constructive triad, or ways of training, are definitely complementing one another," he adds. "That's the wave of the future."

In terms of challenges to industry, Gallinetti points to what he describes as "the inherent nature of the Global War on Terrorism."

"Because the environment is changing so rapidly in theater; and because the tactics, techniques and procedures that the terrorists and insurgents utilize are very adaptive and very flexible; we need industry's help to give us as much capability as possible to stay ahead in that game, to be able to 'turn inside the enemy' and get our own tactics, techniques and procedures even better refined so we can adapt and handle that threat on a more capable basis."

"Along with that, whatever we can do to keep the costs down helps," he adds. "I know that's hard to do with rising costs around the country. But obviously whatever we can do to keep those costs down would help."

# Looking Ahead to I/ITSEC 2006

The conclusion of I/ITSEC 2005 will be accompanied by a shift of lead Service responsibilities from the US Army to the US Navy (USN) / US Marine Corps (USMC) and the adoption of a new theme for I/ITSEC 2006:

*"Training the 21st Century Joint Force..."*

*...Mission Focused to Achieve Warfighting Excellence"*

"It's got a little twist to it in that it introduces an 'outcome based' element: Warfighting Excellence 'not 'Warfighter' but 'Warfighting'," says Naval Air Systems / Orlando Training Systems Division's Gary Fraas, US Navy Service Principal for I/ITSEC. "Of course with the four Services working more and more in a joint environment we will see those kinds of things. I think the 2006 theme will be very relevant to the direction the four Services are going in terms of working together."

"Between the Service Principals and Service Executives we brainstormed to come up with what we feel is a relevant theme—not just for the Navy and Marine Corps but one that would be relevant to all four Services," he adds.

The Service Executives are Captain Larry McCracken, USN, and Colonel Walter Augustin, USMC.

"And it meets the intent of both the Commandant of the Marine Corps and the Chief of Naval Operations," echoes Brian Kummer, Marine Corps Service Principal for I/ITSEC assigned to Training Systems Program Management Office.

In addition to the cooperative effort between the two Services, the theme development process also involved collaboration with the incoming I/ITSEC Conference Chair and Program Chair.



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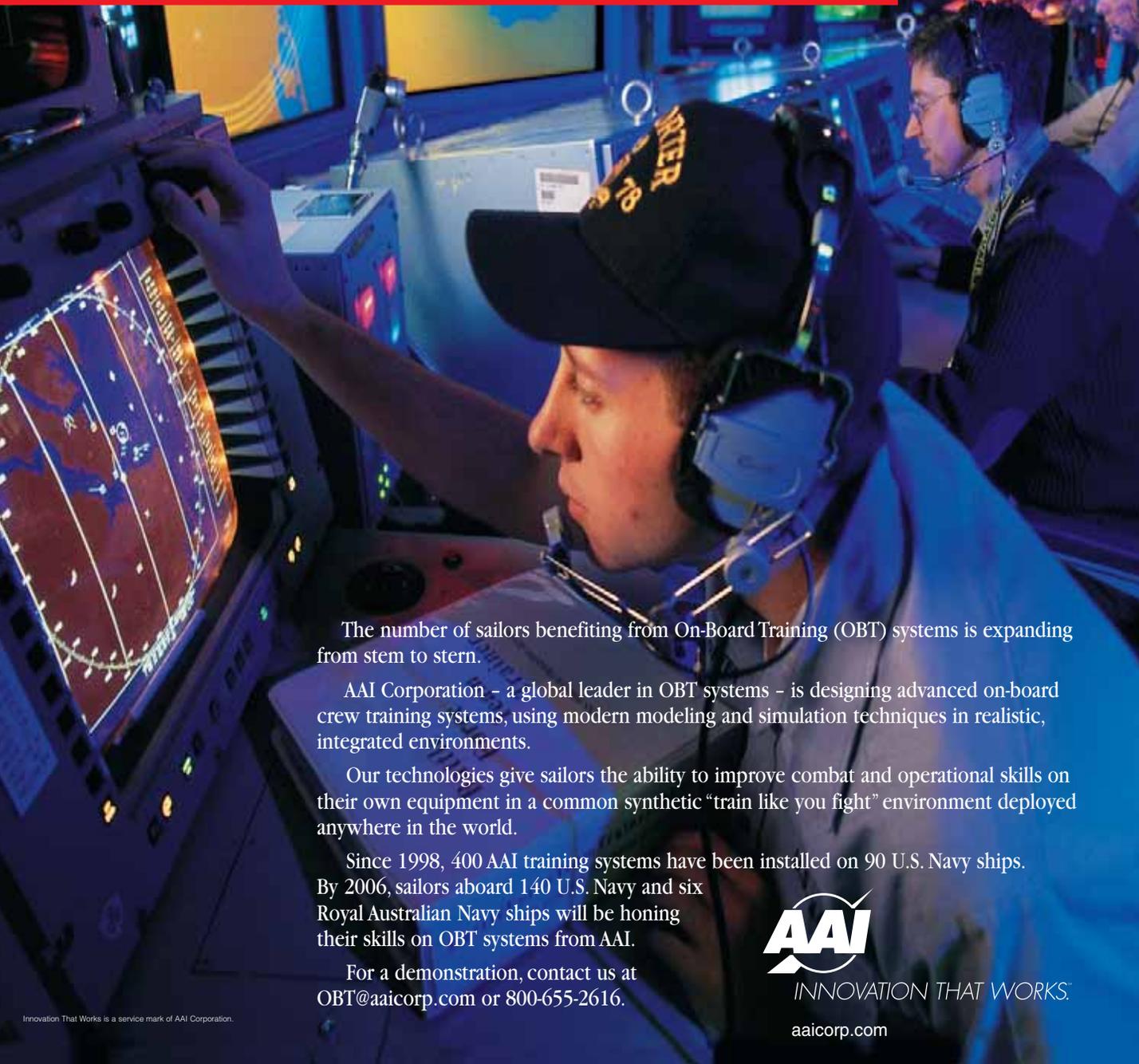
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# Mayberry Sees Good Progress at I/ITSEC

As the Department of Defense focal point for all issues and activities related to readiness and training of the US Armed Forces, Dr. Paul Mayberry, Deputy Under Secretary of Defense for Readiness, describes I/ITSEC as "a tremendous forum for OSD [ Office of the Secretary of Defense] in particular, but also between OSD, the Joint Staff and JFCOM [Joint Forces Command], to put forth our message on the entire Training Transformation (T2) program."

Mayberry notes that 2005 is his fifth year at I/ITSEC, a sequence that began in 2001 with the "roll out" of the Defense Department's overall T2 concepts and guidance from the 2001 Quadrennial Defense Review.

"Since that time we've continued to really benefit from the creativity, great ideas, and energy level of industry as a key partner to how we, as a Department, press forward on transforming," he says. "One of the most key and basic fundamentals in the military ethos is training and education. So what I would like to leave behind is that, from a training perspective, all of the Services have really embraced the transformational concepts required and are moving forward smartly, not only on their own individual efforts but also pressing equally hard in the joint arena."

Describing himself as "very comfortable with the progress that we, as a Department, have made among our four military Services," he adds that the progress to date "has been focused on the reasonably small but critical step of joint training requirements, particularly in information exchange and things like close air support. But I think that we now need to expand, within the concept of the four military Services, to the broader range of Joint Task Articles—the full spectrum of mili-

tary requirements; to include everything from stability operations like we're doing today to complex joint / urban combat operations."

He continues, "so, given the checkmark for the positive advances we've made with respect to the Military Services, I think our challenge for the future is to broaden this concept of jointness, as our T2 vision states, to where this is an inter-agency jointness; an intergovernmental jointness; and a coalition or multinational jointness. And we probably have not made as much progress as I would like to see in those latter areas. So that really needs to be the focus as we continue to go forward, building upon the foundation that we have out of today's Joint National Training Capability."

***"I think our challenge for the future is to broaden this concept of jointness, as our T2 vision states ..."***

***—Dr. Paul Mayberry***

Mayberry urges awareness of "the cost implications" of the continued progress—costs expressed in terms of both dollars and the time available to today's warfighters.

"I'd like to complement the National Training Systems Association on the notion of bringing the warfighter to this conference," he concludes. "Bringing in the warfighters, whether it was through video teleconferencing or through the continual first hand experiences of the men and women in theater at the Warfighters' Corner, has made a tremendous additional contribution to this year's conference."



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# Unique Parallel Training and Equipment Development for FCS

The \$22 billion Future Combat System (FCS) System Development and Demonstration phase provides the US Army with an unprecedented opportunity to field an integrated training solution across complete brigades.

The FCS program is a family of systems that will provide the basis for transforming today's Army into a force of agile, highly lethal, modular Brigade Combat Teams (BCTs) for tomorrow's battlefields. The project is intended to ultimately field eight different manned vehicles, six unmanned ground vehicles and four unmanned aerial vehicles. These platforms will completely equip each FCS brigade. An Initial Operational Capability is scheduled for 2015.

Traditionally, training has been developed in a stovepipe fashion at each of the Army's training schools. "This is the first time the Army will have collective training developed by one team, focused on one organization and it is the first time training has ever been considered this far up front," says Mike Flynn Northrop Grumman Program Manager for FCS. "Typically in the past training has been considered at the middle and the end of the procurement process."

Three companies are teamed for the FCS Collective Training Development Contract—CSC, Dynamics Research Corporation (DRC) and Northrop Grumman.

The three companies were originally in competition but each received contracts from Boeing/SAIC, the Lead Systems Integrator (LSI) for FCS. "We now work as one 'Training Team' within the FCS Team. We have been asked to develop collective training support packages for the entire brigade. These will be multiple self-contained packages that will be used across the entire brigade from squad leaders to the brigade commander," explains Flynn.

"The LSI has taken the brigade apart



and given us each parts of it," says Flynn. "Northrop Grumman is responsible for battle command aspects of training. We also have the Combined Arms Battalion and the Brigade Intelligence and Communications Company."

"DRC has both ends of the spectrum," says Ed Kersey, DRC Program Manager. "We are focused on the joint, interagency and multinational aspects of the brigade - dealing with sister brigades, the division, the corps, joint services, interagency and multinational organizations. At the other end of the spectrum we are dealing with combat service support—the Forward Support Battalion."

"CSC has the other two 'swim lanes'," says De Voorhees, CSC's Director for Training and Simulation Programs, "the Non-Line of Sight Battalions and the Reconnaissance, Surveillance and Target Acquisition Squadrons."

The process began with an extensive mission analysis of the tasks of the FCS BCT during which the industry team identified 472 collective training tasks. This list is now being reviewed by the Army. In July the team launched the next phase—job analysis, identifying what leaders at all levels and battle staff will have to do. This is expected to generate between 800 and 900 tasks. DRC was the process lead for the collective task analysis and CSC is the lead for the battle staff analysis process.

The three companies are exploiting more than 1,000 years of active Army service among their employees to ensure that FCS soldiers will spend more time training to fight instead of first learning to train. "The development and synchronization the 472 collective tasks in 18 months for all elements of the FCS BCT probably could not have been done in the branch schools in a four year period," Voorhees believes.

The companies expect to keep 90 percent of their analysts over the next 10 years, thus providing an unprecedented level of continuity in the training and development process as the FCS program matures.

"The tasks we identified are now being used by developers. That has never been done before. We are very cognizant of what the success or failure of our task will mean to the Army," says Flynn.

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# Joint Warfighting Center Looks to Future Training Needs

**Following the theme** for this year's conference, one of yesterday's panel sessions looked at the 'Joint Training Future'. All three presenters were from the Joint Forces Command (JFCOM) Joint Warfighting Center (JWFC), and presented different facets of the way forward for joint training.

The first presentation from Commander Bob Laubengayer looked at ways to integrate prototypes and concepts into training exercises in order to have them validated. Laubengayer says that in order to assist in the "integration of this great stuff into training operations," the JWFC has formulated the JETA (Joint Experimentation, Test and Evaluation, Advanced Concept Technology Demonstration) process to feed the various technologies and concepts into the training cycle for joint operations.

At the moment the JETA process is being applied to JFCOM sponsored and supported exercises, but Laubengayer says that the JWFC is talking with the Combatant Commanders to get experimentation into more training exercises. "What we are looking to get is the best fit of what the testing audience needs with what the training audience has," he explains.

One of the difficulties so far has been the long lead time for



There is an increasing need for JUO training as US forces deploy increasingly in urban environments. (Photo: DoD)

major joint exercises where planning has taken around 18 months. However, for Fiscal Year 2005 (FY05), 11 JETAs were fixed into the training cycle, with 39 planned for FY06. Laubengayer says that by FY10 he expects some 150 to 200 JETAs to be part of the training cycle.

Next up was Lieutenant Colonel Michael Whetstone with a paper titled 'Creating a Joint Urban Operations Training Strategy'. Whetstone says that US forces "must become accustomed to fighting in cities," because the world has become increasingly urbanized and the countries and adversaries have changed. He adds that now is the time to develop and define a Joint Urban Operations (JUO) training strategy.

Whetstone says that the JWFC is currently working on two strands of that strategy: the development of a JUO Fusion Center; and the development of an academic program to support training. He also used his presentation as a platform to call for funding of facilities to train effectively for JUO.

According to Whetstone, there is a need for several large Military Operations in Urban Terrain (MOUT) centers that the Services and commanders can use to train for JUO. He believes that these facilities need to be as realistic as possible, replicating the complexities of urban terrain, including the difficulties of operating in population centers.

In order to optimize facility use and cut down on transportation costs, Whetstone advocates developing three such JUO centers, in the western, central and eastern regions of the country. He adds that there are a variety of existing facilities in the west and east that could be used, but that in the central region things were more problematic.

The last in the line-up was Chris Raney, Chief Systems Engineer at JWFC. He says that the charter of the 20 or so system engineers at the Center is to develop the technology infrastructure to optimize joint training.

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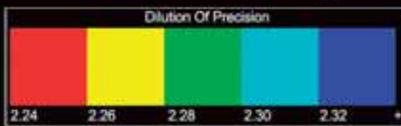
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# Focus on French Force Readiness

Under the auspices of I/ITSEC's International Program, which had its international day yesterday, there was a panel presentation detailing the French Army's use of simulation to assist in force readiness. The presentations gave a general overview of the structures for modeling and simulation (M&S) in the Army.

The first presentation was from Lionel Khimeche M&S Program

of where M&S is going. In order to respond to this the DGA now has an M&S management team that includes both integrated project teams and technical field specialists. At the business end of things this organization is represented through the Service d'Architecture Inter-Systèmes (SAIS). "The SAIS is the M&S contact point in France at DGA," he added.

Khimeche was followed by Colonel Eric Mellet, Head of the Army M&S Office. Mellet says that from the 1980s onwards there has been extensive growth in the use of M&S in the French Army, adding that some key benefits to date have included increased effectiveness and resources savings. "The categories of simulation we have are much like the US," he adds.

"The French Army is more and more convinced that simulation is a critical tool for effective training," Mellet says. Currently the focus is on three areas: concepts and development; collective training; and individual

training. According to Mellet the next steps are to develop distance learning tools and the Battle Lab concept. The French Army's Battle Lab opened in 2003 and, "the aim is to get a more coherent approach to generate future capability by analysis and force experimentation. It is a significant change in the way we plan for the future," he states.

Colonel Olivier Douin, Head of Collective Training for the Army, says that the French Army has gone through significant changes in its structure and force readiness over the last decade moving from a conscript to a professional force. He adds that despite its size the Army of 1996 was only capable of deploying a small number of its forces abroad but that currently around 25 percent of the Army is on operations. He says that collective training plays an important part in preparing for these operations. For that purpose the Army has established the Centre de Préparation des Forces at Mailly.

Major Martial Langlois, Deputy Program Manager for Simulation de Combat Interarmes pour la Préparation Interactive des Opérations, described the new brigade and divisional headquarters trainer. Last week was the completion of the first major exercise to use the system. The use of advanced simulation makes it possible to reduce the number of personnel required for headquarters exercises, yet makes the exercises more realistic.



Manager at the Délégation Générale pour l'Armement (DGA), France's procurement agency. Khimeche says that earlier this year the DGA restructured its M&S procurement activities to give them more focus and "to answer some very bright, clever questions," that concerned the future of M&S in the French Armed Forces.

According to Khimeche the result has been a 30 year forecast plan



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## NATO Experimentation Demonstration

NATO MSG-027 Pathfinder is conducting an initial experimentation demonstration at I/ITSEC on Booth 1422. According to the alliance it will develop an integration environment that will enable the modeling and simulation provider to rapidly build and integrate a mission specific federation of the best models and tools available in a timeframe that meets operational needs.

The eight nations participating in MSG-027 completed an initial experimentation period in Germany. It used a range of integration framework elements and supporting simulations to examine representative initial capabilities.

## Canada Receives CF-18 Trainers

**The Canadian Forces** have declared the first four CF-18 Air Combat Emulators (ACES) built by Link Simulation and Training (Booth 1758) ready for training.

The four CF-18 ACES have been installed at 4 Wing Canadian Forces Base (CFB) Cold Lake, Alberta. Link received a C\$127 million contract in April 2004 from Bombardier Aerospace's Military Aviation Training division, the prime contractor for the Advanced Distributed Combat Training System (ADCTS) program.

Air Force project staff estimates that ADCTS could meet 40 percent of the current flying training requirement to allow pilots to achieve and maintain their proficiency on the upgraded CF-18 fleet.

The CF-18 ACES incorporate key elements of trainers Link has delivered to the US Navy for its F/A-18C Distributed Mission Training program.

The CF-18 ACES are integrated with Link's SimuSphere display system, providing pilots with computer generated visual imagery across a 360-degree field-of-view. In 2006, two additional CF-18 ACES will be installed at 3 Wing, CFB Bagotville, Quebec. Link has also delivered 10 CF-18 Part Task Trainers to Cold Lake and Bagotville.



Link CF-18 Air Combat Emulators at Canadian Forces Base Cold Lake are ready for training to begin. (Photo: L-3)

Bombardier's contract covers the design and construction of state-of-the-art Mission Training Centres at Bagotville and Cold Lake as well as provision of full instructional and support services for up to 15 years. The project will deliver the first operational Distributed Mission Operations system to be fielded in Canada. Using the CF-18 ADCTS the Air Force will be able to conduct training ranging from basic missions to full-theater level operations.

## Indra Upgrading Navy Helicopter Simulator

**Indra Systems**, the US subsidiary of Spain's Indra Systems, is modernizing the US Navy's MH-53 helicopter simulator at Norfolk Naval Base, Virginia.

The contract, not to exceed \$9 million, was awarded as a delivery order under the Navy's Training Systems Contract II framework and is scheduled for



completion by September 2007. Major sub-contractors include Veraxx, Aechelon, SEOS, IMPEX (FCS), Industrial Smoke & Mirrors, and Anteon.

### Correction

The Boeing/Cubic relationship announced on November 28 does not include pursuit of the Warfighter Field Operations Customer Support program. Cubic is already teamed with Raytheon and CSC to pursue this program.

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# Warfighters Share Experience of War on Terrorism

**Members of the four services** are sharing their experience of the Global War on Terrorism at the Warfighters Corner (Booth 1259) at 1345.

US Army Lieutenant Colonel Charles Hodges, who spent the last three years with the first Stryker Brigade Combat Team, is well placed to discuss the Army's newest combat organization. He served as a Battalion Executive Officer during combat and humanitarian assistance operations in Samara and Mosul, Iraq. Later, as the Brigade Operations Officer, he planned and executed multiple Brigade level combat operations throughout Nineva province.



US Air Force Captain Peter Reddan is currently the program manager for the KC-135 Tanker Training Program at Headquarters Air Education and Training Command and also serves as a T-6A Instructor Pilot for the 558th Flying Training Squadron. During Operation Enduring Freedom, he was the crewmember of a KC-10A Extender tanker that flew close formation with a B-52 bomber that lost electrical power. Through close coordination the KC-10A crew was able to successfully guide the stricken bomber to a safe landing.

US Marine Corps Reserve Staff Sergeant Arthur Mueller volunteered his abilities and expertise as a civilian automotive technician to help with the installation of the Marine Armor Kit on HMMWVs in Iraq. He was a member of the Marine Corps System Command Ground transportation engineering systems group that successfully installed 1,800 armor kits, saving hundreds of Marine and Soldier lives. He was rotated out of theater in September 2005.

US Navy Lieutenant Commander Eric Duke served as Operations Officer for the USS *Comstock* (LSD 45) in September 2001 when it was assigned to the Peleliu Amphibious Ready Group. They were the first forces to arrive in the North Arabian Sea following the 9/11 terrorist attacks. During Operation Iraqi Freedom, he served as Staff Operations Officer for Amphibious Squadron One and coordinated the offload of Marines and their equipment for Amphibious Task Force West.

# Air Force Researches Fidelity and Deployability Tradeoffs

**As a complement to** Service emphasis on both deployable and embedded training technologies, the US Air Force Research Laboratory (AFRL) in Mesa, Arizona is researching the most efficient and low cost methods of maintaining critical combat skills.

Over the last two years this research has led to development of the Experimental Deployable Tactical Trainer (X-DTT). Two of AFRL's X-DTT modules at I/ITSEC 2005 participated in this week's Joint Virtual Training Special Event.

"We research new technologies and new techniques to enhance training," explains Brian Schreiber, contractor support to AFRL. "Sometimes we could be researching a new syllabus. Years ago we researched the effects of speeding up the simulations to see if that might improve training. We research ways to categorize and describe the critical knowledge, skills and experiences someone has to have before they go to war. We research the performance measurements. So we do research in a number of different areas."

"In the case of these deployable cockpits, we are trying to research what is the best mix of fidelity to provide good training on a wide swath of the critical experiences that someone has to have before they go to war," he says. "There is a whole other line of research our lab has done to define the critical knowledge, skills, and experiences that a warfighter has to have to go to war. We elicited that knowledge from operational pilots. And from that, we can now look at a system like this: For a low cost what can we build that can cover and train you on a wide swath of those critical experiences so that you can be ready to go to war?"

Contrasting X-DTT to full fidelity simulators that use actual aircraft displays, Schreiber says, "Compared to that, which can train on a pretty good representation of a lot of things, we have to see exactly how much we lose when we start scaling back in certain areas. That's why we have this here. The research is done on the fidelity tradeoff to make sure that we spend the money where it is needed most."

For example, while the X-DTT replaces actual cockpit displays with less expensive touch screen panels, it uses the same actual aircraft software codes.

"So you save considerable costs but you don't really lose much," Schreiber observes.

"We're a research lab," reiterates Dr. Winston Bennett, of AFRL's Human Effectiveness Directorate. "So all of this is designed to look at fidelity tradeoffs and training research."

"Philosophically it's just like the 'full up' simulators that the Air Force is buying and the other Services are buying, he says. "But what's unique about these is that we collected data at Bagram [Air Base, Afghanistan], in Northern Iraq and elsewhere and the 'fire guys' all told us, 'We need something that you can get me in theater, that I can train with while I'm here to rehearse my mission for tomorrow and to keep from getting rusty on the things that I'm going to be doing when I get back home. So we took all of the training research stuff that we were doing and we tried to package as much of it as we can in a smaller footprint that we can actually send out to the field, so that those guys can have it in theater. And the plan for this program is to field those technologies at a forward base, where they can be used for rehearsal and exercise."

AFRL is researching a configuration of four X-DTT modules, briefing / debriefing system, threat generation system, and performance measurement system. Once research has determined the optimum fidelity tradeoffs, the specifications would be passed to the Air Force for future procurement consideration.

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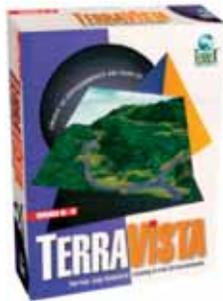
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