

The
P

recision Strike Digest



**PRECISION STRIKE
ASSOCIATION**

Affiliate, National Defense
Industrial Association

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2008
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"From Cruise Missiles Association to Precision Strike Association we have been dedicated to advancing the art and science of precision engagement concepts and technology for 20 years."

VISION STATEMENT

We aspire to be the premier association dedicated to advancing the art and science of precision engagement concepts and technology.

To accomplish this, we will promote the development of systems and procedures in order to locate, fix, track, target, and attack fixed, moving, and relocatable targets.

We recognize that battlespace management, the network within which it functions, and the adjunct command and control requirements are crucial to success on the battlefield.

PSA has a global perspective and welcomes international participation.

Executives and Flag & General Officers Address Precision Strike Annual Programs Review

Precision Strike Annual Programs Review (APR-08) scheduled for 15-16 April 2008 at The Waterford in Springfield, VA will focus on **Acquisition Excellence for Precision Strike through Teamwork**. Numerous leadership speakers from the Military Departments, the Joint Staff, Office of the Secretary of Defense, Industry and the International Arena will be featured.

APR-08 will provide participants a forum related to the full spectrum of challenges our Nation may face. Expect to become informed on: (1) how to gain efficiencies throughout the acquisition cycle including the key to weapons that work, (2) what changes are in store for Defense priorities and strategic objectives based on the new National Military Strategy, and (3) who the experts are that drive the Services' kill chain systems including their execution in Afghanistan and Iraq, as well as the acquisition effects on the precision strike kill chain.

Further, APR-08 will showcase the international perspectives of airborne and naval precision engagement in presentations by select Allies. Also, several key industry leaders will discuss impacts on immediate battlefield needs related to acquisition reform. See page 11 of this Precision Strike Digest for other briefing topics that are of central interest to the precision strike community.



Honorable
Gordon England



Admiral Edmund
Giambastiani, Jr.

During this 20th Anniversary year, PSA is honoring two Defense Champions – Deputy Defense Secretary Gordon England and Former Vice Chairman of the Joint Chiefs of Staff Admiral Edmund Giambastiani, Jr., USN (Ret) with the award to each of the PSA Gold Medal. In a period of unprecedented stress on the military services and defense agencies to provide support for forces deployed in combat while at the same time modernizing and recapitalizing force structure, both of these leaders of our community kept focus on the importance of maintaining and growing the asymmetrical advantage of precision strike weapons and their supporting C4 systems. This advantage will ensure not only superiority over the irregular forces of today's adversaries, but continued deterrence of future threats to U.S. national interests around the globe.

Please join us for this unique opportunity to interact with a dynamite slate of speakers and to share in our special recognition to PSA's Gold Medalists. ■

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Chairman's Column

Thankfully, we are seeing some improvement as regards the tactical and operational situations on the ground in Iraq.

As Yogi Berra used to say, "Predictions are difficult, especially about the future," but the progress in Operation Iraqi Freedom is encouraging.

By the same token, our allied forces continue to fight hard against a resurgent Taliban and their supporters in Afghanistan. These are determined enemies staunchly opposed to our strategic interests around the world. As Ronald Reagan once said about our communist Cold War adversaries, this is not just a disagreement between accidental antagonists, but a struggle between good and evil.

But I digress. The reason for making these points is that it can be far too easy, when things are going well, to forget about the perseverance by our government and industry leaders. Many tough years brought the superb military capabilities to our forces in the field that today allow them to be victorious.

In particular, successful precision engagement operations—the ability to Find, Fix, and Finish an asymmetric enemy like the irregular forces we fight in Iraq or Afghanistan—are crucial.

Those precision engagement capabilities are in place now because of the tough-mindedness of leaders like Deputy Secretary of Defense Gordon England and Admiral Edmund Giambastiani, U.S. Navy (ret.). The Precision Strike Association is

honored to award each a PSA Gold Medal for their accomplishments in meeting the precision strike needs of the warfighter. Join us in April at the PSA Annual Programs Review (APR) –details found in this issue—where the presentations will take place.

And further to my point that we as a community cannot take our eyes off the ball when it comes to advancing the art and science of precision engagement, you will find a superb lineup of speakers at the APR. This will be our second year at the Waterford at Springfield in Springfield, VA. This is a great venue, near many hotels and restaurants and out of the hustle and bustle of locations closer to Washington, DC. I hope to see you there!

Please visit our website to download a brochure and to register for the Annual Programs Review.



Bill Dalecky
Chairman of the Board
Precision Strike Association

Winter Roundtable 2008 Wrapup: Defining the Future of Precision Strike

The Precision Strike Association (PSA) held its annual Winter Roundtable on January 23, 2008 at the Crystal City Marriot, Arlington, Virginia.

Bill Dalecky (PSA's Chairman of the Board) and Ginny Sniegon (PSA's Programs Chair) welcomed senior DoD and U.S. military officials and industry representatives to the popular all-day unclassified forum geared to providing the attendees with insight into how the precision strike community should plan to address and meet the future key security challenges facing the United States.

Representative Joe Sestak (D-PA, 7th District) a member of the House Armed Services Committee, led off the day's thoughtful presentations with a view from Capitol Hill regarding the policies and strategies that impact precision engagement and the future of precision strike. Representative Sestak directed much of his remarks to "the network" since he is "taken with this ability to *know* so that one can respond." He believes the challenge of the New Frontier is control of cyberspace and noted that "we must make certain that we dominate cyberspace."



Congressman
Joe Sestak



Greg Kiley

Also offering his perspectives on the key defense issues and budget implications was **Greg Kiley**, a professional Senate Armed Services Committee staffer.

Next, **Colonel Gary Kinne, U.S. Army**, TRADOC's capabilities manager for precision fires, rockets & missile systems, offered a detailed update on the status of various U.S.

rocket systems, providing a lead-in to the main topic of the Perry Award luncheon. He described further improvements under development and consideration for the U.S. military's current rocket systems that will stay in service through at least 2050. He said fielding of a unitary warhead for the Multiple Launch Rocket System (MLRS) has "revolutionized the role of field artillery in the urban fight inasmuch as it can be used in close proximity to U.S. troops." He also



Colonel Gary Kinne

noted that Guided MLRS, which is armed with a 200-pound warhead and employs GPS/INS guidance, has been shown to be effective out to 78 km, eight kilometers further than thought.

Richard B. Ladd, chairman of Robison International, a Washington, DC-based defense consulting firm, said "we sit at a very critical juncture in terms of capabilities" and "persistent conflict will be the nature of warfare that we will be facing for the long term." Ladd said "precision in urban warfare will limit collateral damage." "When you think about the hearts and minds aspect of warfare, you can't have collateral damage," Ladd believes. "The PSA, as a purveyor of a capability, is almost in the "sweet spot of things," he added.



Richard B. Ladd

Ladd also believes that "we're missing a bet" if we don't modernize the industrial base to accommodate new technology, different production rates. "We need much more flexible production processes all the way down to the (circuit) board level so we can handle technology evolution and obsolescence."

The **Honorable Ryan Henry**, principal deputy undersecretary of defense for policy, delivered the keynote address. He discussed the defense legacy of the Bush administration and the so-called "continuum of transformation."



Honorable Ryan Henry

Not since 1952 has there been a presidential campaign in which a current administration has not played a major role. "This allows us to start thinking about transition in a different way," he stated.

Regarding precision strike, Henry said "we need to give some hard thought about how we can increase the effects that we can get out of precision weapons, but decrease the risk and regret factors of their employment — the big issue being collateral damage. When you start to have energy density in small packages that have extreme accuracy, you start to eliminate a lot of the issues you currently have with collateral damage."

Joseph C. Bonnet, III, deputy director for joint force development & integration, Operational Plans & Joint Force Development Directorate (J-7), The Joint Staff, discussed how the Joint Capability Areas (JCAs)



Joseph C. Bonnet, III

are an integral part of the evolving capabilities-based planning process. He said JCAs are collections of like DoD activities functionally grouped to support capability analysis, strategy development, investment decision-making, capability portfolio management and capabilities-based force development and operational planning. He believes “joint capabilities bring together people across the departments, linking all disparate activities and processes.”

A high-point of Winter Roundtable 2008 was the presentation of PSA’s 12th annual William J. Perry Award to the government/industry team that delivered the Guided Multiple Launch Rocket System (GMLRS) and the High Mobility Artillery Rocket System (HIMARS) to the precision weapons inventories of the U.S. Army, U.S. Marine Corps and Allied ground forces.

Dr. Bill Perry was present to bestow the award that recognizes public or private sector leadership or achievement that results in significant contributions to the development, introduction, or support of precision strike systems. The GMLRS/HIMARS Team was honored for “outstanding contributions by providing revolutionary surface-to-surface precision engagement capability to joint and coalition combat commanders.”

The GMLRS/HIMARS Team exceeded expectations through development and fielding of the expeditionary HIMARS utilizing the innovative surface-to-surface precision engagement capability of the Guided Multiple Launch Rocket.

Due to the superb commitment of the U.S. Army/Lockheed Martin Team, this game-changing precision capability is now in the arsenal of coalition commanders in the field.

With over five hundred rockets employed in support of coalition forces and an overall reliability rate exceeding 98 percent, this system provided a significant contribution to operational success and has become a weapon system of choice for commanders.



“The GMLRS/-HIMARS Team members have exemplified the ideals of the Precision Strike Association,” the William J. Perry Citation Award states.

The former Secretary of Defense, **William J. Perry**, was clearly elated with this year’s winner. He exclaimed “I am always pleased when the award is given to a joint industry/military team because it takes cooperation and collaboration to have a successful program.” Additionally, Dr. Perry noted “Lockheed Martin certainly has had a splendid record, so I’m not surprised that Lockheed is on the winning team this year.” The precision strike pioneer further stated “I am delighted and proud to celebrate the Army as this year’s government winner.”

“The trend in the last few decades has been towards precision for very good reasons. Sometimes you develop precision weapons from scratch. Sometimes we adapt. This was a very smart move to adapt MLRS to a precision weapon,” he concludes.



COL David Rice

In accepting the award for the government team, **Colonel David Rice**, USA, the U.S. Army’s program manager for precision fires, rockets and missiles systems, was taken aback. “This is surreal. This is really a big deal, a big day for us in precision fires. We are honored and humbled to be the first Army recipient of this prestigious award. Lockheed Martin knows how to make a product. They know doggone well what they are doing,” he added.



Thad Moore

Thad Moore, Lockheed Martin’s vice president for domestic business development, considers it “a great honor” to accept the award on behalf of Lockheed Martin. Stated Moore: “I love the Army, and I love supporting the customer, knowing what GMLRS is used for. I’d rather do this than sell refrigerators.”

Named after the former U.S. defense chief and precision strike weapons advocate, others to have received the prestigious Perry Award include: Dr. Perry, the first recipient (1997); former Vice President Dan Quayle (1998); RADM Walter M. Locke, USN (Ret.) (1999); The Johns Hopkins University, Applied Physics Laboratory (2000); the NAVSTAR Global Positioning System Joint Program Office (2001); Rep. James V. Hansen (R-UT) (2002); Terry Little, a well-respected acquisition reform pioneer (2003); the USAF/USN/Boeing JDAM Program Team (2004); U.S. warriors of Operation Enduring Freedom and Operation Iraqi Freedom (2005); the government-industry Tactical Tomahawk Team (2006); and, the government-industry Small Diameter Bomb Team (2007).



Peter Huessy

Those attending the afternoon session heard from **Peter Huessy**, president of GeoStrategic Analysis, who once again offered his pointed perspective on the wide range of national defense policy issues facing U.S. lawmakers and the role of the media in shaping (or in his view miss-shaping) public opinion. Huessy dubbed his presentation “a politically incorrect guide to defense policy in Washington.”



COL Dash Jamieson

USAF Colonel Dash Jamieson, AS/A2 Director, ISR Transformation, discussed the prominent role of intelligence, surveillance and reconnaissance (ISR) in modern warfare. “I really don’t believe there’s a kill chain without ISR, which offers capabilities across the full spectrum

of lethal and non-lethal conflict. While ISR is critical to tightening the kill chain, killing isn’t always the desired effect,” she believes.

Col. Jamieson said the “information mosaic” is something we will rely more and more on in the future. She said “ISR efforts today make up the vast majority of the operations required to achieve our security objectives, from finding the enemy, putting weapons on target and subsequently assessing the results.”

She said “today’s ISR systems have increased our ability to generate action-able intelligence while decreasing the sensor-to-shooter lag time. In fact, today’s sensor platform is also frequently the shooter and thus the kill chain has dramatically been shortened.”



Lt COL Prince Valin

USAF Lieutenant Colonel Prince Valin, chief, Kinetic Weapons Branch, Force Application Engagement Division (J-8), The Joint Staff, discussed how the Joint Capabilities Integration & Development System (JCIDS) will drive military service “interdependence” that goes way beyond interoperability. “I picture individuals

on the military service staffs who shudder at the word ‘interdependence.’ That service perspective is a paradigm we’re breaking, but it is really hard.”

Stephen Welby, director of DARPA’s Tactical Technology Office (TTO), offered an overview of DARPA R&D efforts in the areas of networked

engagement, high-speed weapons, precision navigation, advanced delivery concepts, advanced ISR/targeting capabilities and directed energy. Among the ongoing projects under evaluation at the TTO is the Vulture, or Very-high-altitude, Ultra-endurance, Loitering Theater Unmanned Reconnaissance Element, a drone that would fly five years nonstop.

Wrapping things up for the day was **Jeff Ryder**, director, strategic studies, BAE Systems, who looked at the missiles and weapons market, to include precision guided armaments. He said “the spending profile shows very few new starts in the near term. Most of the emphasis right now is on upgrading legacy systems, improving their performance.”

The company analyst says defense contractors are doing a good job in developing technologies and addressing capability gaps. They are “making dumb weapons into smart weapons and smart weapons cheaper.” However, he advised ‘smart’ weapons manufacturers to avoid adding capabilities where they are not needed and Ryder advocated realistic cost estimates. ■



Stephen Welby



Jeff Ryder

PSA would like to thank

LOCKHEED MARTIN 

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for Sponsoring the
2008 Precision Strike Winter Roundtable

William J. Perry Award Ceremony at the Winter Roundtable January 23, 2008



Bill Dalecky, Dr. William J. Perry, COL Dave Rice, USA and COL Gary Kinne, USA



COL Gary Kinne, TRADOC Capability Manager, Rocket and Missile Systems, Mr. Jeff Froyland, Deputy TRADOC Capability Manager, Rocket and Missile Systems, COL Dave Rice, Project Manager, Precision Fires, Rocket and Missile Systems, Dr. William J. Perry, LTC Mark Pincoski, Product Manager, Precision Guided Missiles and Rockets, Mr. Darren McConnell, Deputy Product Manager, Precision Guided Missiles and Rockets, LTC John Chicoli, Product Manager, Field Artillery Launchers



Bill Dalecky, Dr. William J. Perry and Thad Moore—Lockheed Martin



LTC John Chicoli, Product Manager, Field Artillery Launchers, LTC Mark Pincoski, Product Manager, Precision Guided Missiles and Rockets, COL Gary Kinne, TRADOC Capability Manager, Rocket and Missile Systems, COL Dave Rice, Project Manager, Precision Fires, Rocket and Missile Systems, Dr. William J. Perry, Jim Gribbschaw, Director, Precision Fires, Al Duchesne, Director, Rocket and Missile Systems, Thad Moore, Vice President, Business Development Air and Missile Defense and Tactical Missiles, Greg Kavanagh, Director, MLRS Launchers



John Douglass, Dr. William J. Perry, Ginny Sniegion and Bill Dalecky



Jim Gribbschaw, Director, Precision Fires, Al Duchesne, Director, Rocket and Missile Systems, Dr. William J. Perry, Thad Moore, Vice President, Business Development Air and Missile Defense and Tactical Missiles, Greg Kavanagh, Director, MLRS Launchers

Air-to-Ground Missile Launched from Drone

For the first time, an air-to-ground missile has been launched from a full-scale aerial target drone, or FSAT.

The test was performed Jan. 9 at Holloman AFB, NM, by airmen with Detachment 1 of the 82nd Aerial Targets Squadron.

The FSAT is an unmanned QF-4 Phantom II drone that was operated by remote control from a ground station, said Major John Markle, the department's operations officer.

"This is the first air-to-ground missile fired off an unmanned full-scale aerial target," said Maj. Markle. "This test is an important part of the Detachment 1 mission because it increases survivability of our pilots going against (surface-to-air missile) threats. It makes airpower more lethal. This test involved a new high-speed, anti-radiation missile the Navy designed to defeat SAM threats. Overall, this mission is going

to benefit the Department of Defense," Markle believes.

"With this successful test, we have pioneered a new venue to test forward-firing ordnance without risk to valuable air assets or crew members," said Lt. Col. Joel Rush, Detachment 1's commander.

The detachment is currently testing F-35 Lightning components, and has conducted tests for the F-22 Raptor as well as the Patriot and HAWK SAM systems. ■



Celebrating 20 years of Excellence Bringing Precision to the Force



In 1986, at the encouragement of RADM Walter Locke, USN (Ret), the Cruise Missiles Association (CMA) was established. Admiral Locke promoted the idea among former Air Force and Navy leaders in the Joint Cruise Missiles Project Office. Project Leaders including Alan Chase, John Douglass, Pete Mallowney, and Ken Westall were in agreement and determined that the first venture of the Association in 1987 would be a Reunion.

April 24, 1987: Enthusiastic past and present team members from government, industry, plus friends, and families celebrated the first Joint Cruise Missiles Program Reunion. Over 400 attended, including Dr. William Perry, in the Navy Museum at the Washington Navy Yard. Most attending responded to a questionnaire in favor of creating an association. We soon sponsored a professional meeting with a prominent speaker.

July 22, 1987: CMA had its first quarterly luncheon professional meeting. The speaker was VADM Joseph Metcalf, then the Deputy Chief of Naval Operations for Surface Warfare.

April 29, 1988: The First Annual Meeting and Symposium was conducted at Fort McNair, Washington, DC. The keynote speaker was Senator Dan Quayle. That evening, the second Joint Cruise Missiles Team Reunion was held at the Washington Navy Yard.

July 11, 1988: The Cruise Missiles Association was incorporated by the Commonwealth of Virginia as a nonprofit, tax-exempt corporation organized exclusively for charitable, educational, and scientific purposes;

therefore, an exempt organization under Section 501(c)(3) of the Internal Revenue code. The Cruise Missiles Association was dedicated to advancing the science of precision guided weapons systems and to educating the public and their government leaders about the benefits of a national defense that has an accurate, stand-off munitions capability against ships and land targets. Its members were from government, including the military, and the private sector, but the Association was independent of government or any particular company. The spectrum of our interests included cruise missiles, standoff weapons, fire-and-forget munitions, precision guided bombs, smart sub-munitions, and associated employment planning and weapons control systems.

September 1988: CMA published the first issue of the Cruise Missiles Digest.

November 7, 1991: First Precision Strike Technology Symposium convened at the Johns Hopkins University's Applied Physics Laboratory to advance the science of accurate standoff weapons, reconnaissance, and mission planning.

In 1993: The Board of Directors authorized a name change to the Precision Strike Association, better reflecting the change in our mission. The newsletter was re-named the Precision Strike Digest a year later.

Submitted by Admiral Walt Locke, USN (Ret) — original founder/member of Cruise Missiles Association and Emeritus member of the Precision Strike Association. This is the first of four articles celebrating the 20 year history of CMA/PSA.



Air Force Chief of Staff Releases Weapon System Roadmap

USAF Chief of Staff General T. Michael Moseley, has released the Air Force's weapon system "roadmap," a long-term plan for providing Air Force capabilities in the 21st century to meet threats to the Nation.

As part of the Air Force's strategic planning efforts, senior leaders from the Regular Air Force, National Guard and Air Force Reserve gathered in early December to discuss this plan and collaborate on this "roadmap" for the USAF, a roadmap designed to meet one of the Nation's most pressing needs: recapitalization and modernization of its aging Air Force fleet.

Gen. Moseley said "we need to prepare today for tomorrow's challenges. We need one vector to best meet the warfighting requirements of our Nation."

The roadmap outlines where future advanced weapon systems could potentially be based in the continental United States, Hawaii, Alaska and U.S. territories. The plan calls for the Air Force to evaluate installations that currently house legacy weapon systems forecasted for replacement by future systems.

The "next-generation" capabilities are required to fight and win America's wars, and the roadmap represents a Total Force approach to the bed-down of weapon systems. Current and future requirements to build the capabilities of international partners will also be considered as part of the bed-down decision process.

"We're simply promising a look at these systems and installations as our planning continues," added Gen. Moseley. "This is the Air Force's planning process for the future, for

providing the required force structure that will give our Nation the capability for vigilance, reach, and power across the globe, to reassure allies, to deter, dissuade and defeat adversaries, and to protect the Homeland."

The roadmap represents a more efficient and flexible force structure. Although the Air Force will have a smaller total aircraft inventory, overall USAF capabilities will increase with each next-generation weapon system. In numerous instances, the potential locations will capitalize on Total Force integration efforts, creating innovative organizational arrangements among Regular Air Force, Air National Guard and Air Force Reserve components.

Installations that meet preliminary objective requirements will undergo thorough environmental studies in accordance with the National Environmental Policy Act (NEPA), which mandates environmental analyses and impact studies that are critical factors in determining final bed-down bases in the U.S. as suitable locations for weapon systems.

These major studies take time, may consider either one or several installations in a single study and may not be initiated at every potential location. The findings of these environmental studies, and the results of required fiscal and operational analyses which will be conducted over the next several years, will determine the final bed-down plan and phasing.

The weapon system roadmap does not include possible basing initiatives on foreign soil; overseas basing of future USAF weapon systems will



The Dawn for Unmanned Aircraft Systems like the Predator.

be determined by consultation with allied nations.

U.S. locations recently added or planned as possible home stations for General Atomics ASI MQ-1 Predator unmanned aerial systems include: Cannon AFB, NM; Ellington Field, TX; Fort Huachuca/Davis-Monthan AFB, AZ; Grand Forks AFB/Hector International Airport, ND; and March Air Reserve Base/Southern California Logistics Airport, CA. The more advanced MQ-9 Reaper UAS may park at Cannon AFB, NM and/or Fort Drum/Syracuse, NY. And Northrop Grumman RQ-4 Global Hawk UAS may find future homes at Grand Forks AFB, ND and Andersen AFB, Guam.

The future CSAR-X (Combat Search and Rescue Helicopter) could end up at: Davis-Monthan AFB, AZ, Elmendorf AFB, AK; and, Patrick AFB, FL, plus other sites.

The next-generation air superiority fighter, the F-35A Lightning II, is eyed for basing at Andrews AFB, MD; Barksdale AFB, LA; Edwards AFB, CA; Eglin AFB, FL; and, Martin State Airport, MD, among other candidate sites. The CV-22 Osprey special operations tiltrotor will most likely be home-based at Cannon AFB, NM.

Candidate home stations for the Next-Generation Bomber include, as expected, Dyess AFB, TX, Ellsworth AFB, SD; Barksdale AFB, LA; and, Minot AFB, ND. ■

News Briefs

\$194 Million Contract for Army Tactical Missile System

Lockheed Martin has received \$194 million from the U.S. Army for continued production of Army Tactical Missile Systems (ATACMS).

The contract includes the ATACMS Quick Reaction Unitary and the Block IA Missiles. ATACMS is a long-range missile artillery round designed specifically for destroying high-priority targets at ranges up to 300 kilometers. Able to deliver a wide variety of warhead options, it can operate in all climate and light conditions while remaining beyond the range of most conventional weapons.

The Army TACMS Unitary missile is a responsive, all weather, long-range missile, with a high explosive, fragmentation, multifunctional warhead fired from the Multiple Launch Rocket System (MLRS) family of launchers and the new High Mobility Artillery Rocket System (HIMARS) launcher. ■

\$512 Million for HIMARS and GMLRS

Lockheed Martin recently received a \$512 million contract to provide the High Mobility Artillery Rocket System (HIMARS) and the Guided Multiple Launch Rocket System (GMLRS) to the U.S. Army and to the U.S. Marine Corps.

“The HIMARS system brings much more mobile and lethal dimension to soldiers and marines,” said U.S. Army Lt. Col. John Chicoli, precision guided munitions and rockets product manager. “HIMARS’ exceptional mobility and transportability, together with the newest evolution of the MLRS family of munitions, bring long-range, precision fires, all-weather,

near-vertical impact to theater — greatly reducing collateral damage.”

HIMARS can accommodate the entire family of MLRS munitions, including all variants of the Guided MLRS rocket and Army Tactical Missile System (ATACMS) missiles.

HIMARS carries a single six-pack of MLRS rockets, or one ATACMS missile. Its fire control system, electronics and communications units

are interchangeable with the existing MLRS M270A1 launcher, and the crew and training are the same.

GMLRS is an all-weather, precision strike, artillery rocket system that achieves greater range and precision accuracy requiring fewer rockets to defeat targets, thereby reducing the number of rockets necessary to defeat current targets as well as limiting collateral damage. ■

PEOPLE

Army Lt. Gen. **Raymond T. Odierno** has been nominated for appointment to the rank of general and assignment as vice chief of staff, U.S. Army, Odierno is currently serving as the commanding general, III Corps/commander, Multi-National Corps-Iraq, Operation Iraqi Freedom.

Marine Corps Lt. Gen. **James F. Amos** has been nominated for appointment as the assistant commandant of the Marine Corps, and for appointment to the rank of general.

Rear Adm. **Scott H. Swift**, U.S. Navy, is being assigned as commander, Carrier Strike Group Nine, Everett, WA. Swift is currently serving as deputy commander, U.S. Naval Forces, U.S. Central Command, Manama, Bahrain.

Rear Adm. (lower half) **William R. Burke** is being assigned as director, Navy Quadrennial Defense Review, N8, Office of the Chief of Naval Operations, Washington, D.C.

Rear Adm. (lower half) **William E. Shannon** is being assigned as program executive officer for strike weapons and unmanned aviation. Shannon is currently serving as vice commander, Naval Air Systems Command,

Darryl Davis has moved into the position of president, Advanced systems, for Boeing Integrated Defense Systems (IDS), replacing **George Muellner**, who retired in late 2007. In announcing the appointment, Boeing said that the Advanced Systems headquarters will move from Long Beach, CA. to St. Louis, MO, where IDS is head-quartered. **David Whelan** will remain as deputy in Southern California. **Matthew Ganz** is now president of Boeing's Phantom Works. He comes to Boeing from HRL Laboratories in Malibu, CA where he was president, chief executive officer and general manager. HRL Laboratories is jointly owned by Boeing and General Motors. Ganz succeeds **Bob Krieger**, who retired late last year.

QinetiQ has appointed retired U.S. Navy Admiral **Edmund P. Giambastiani, Jr** as an independent non-executive director to the QinetiQ Board with effect from 1 February. Giambastiani replaced **George Tenet** who stepped down from the Board of QinetiQ Group, joining the Board of QinetiQ North America following his appointment as managing director of Allen and Company. Between 2005 and 2007, Giambastiani was vice chairman of the Joint Chiefs of Staff. **Dr. Stephen Cambone** has joined QinetiQ North America as senior vice president for strategy. From 2003 to 2006, he served as the first undersecretary of defense for intelligence. Prior to 2003, Cambone was charged with strategic planning for DOD.

Northrop Grumman has named **Timothy C. “T.C.” Jones**, vice president of air force programs, serving as the company's primary liaison with this business sectors. Jones retired from the USAF after more than 30 years of service. His final assignment was director of programs, Office of the Deputy Chief of Staff for Strategic Plans and Programs, Headquarters, USAF. He was promoted to major general in 2004.

Second Successful Engine Test of JSOW-ER

The Joint Standoff Weapon Extended Range (JSOW-ER) missile moved one step closer to powered flight testing when Raytheon earlier this year successfully conducted a second ground test of the JSOW-ER's engine.

The test evaluated a flush inlet, engine and exhaust design. This test keeps the JSOW-ER on track for further functional ground tests, a captive carry flight test in 2008, and a free-flight demonstration in 2009.

JSOW-ER, a response to the USAF's request for information for alternative solutions to the Joint Air-to-Surface Standoff Missile, is a proposed variant of the combat-proven JSOW, with a price goal of \$350,000 per unit.

"JSOW-ER provides the warfighter an affordable extended-range missile that is essentially a spiral of Raytheon's combat-proven glide JSOW," said Harry Schulte, vice president of Raytheon Missile Systems Strike product line. "It can be easily integrated onto any aircraft that can carry JSOW and will give the warfighter a 300-nautical mile missile with the same netted weapon capability and maritime interdiction capability currently in development for the JSOW C-1." ■

USAF Tests 15 Ton Bomb

A team of weapons specialists loaded a 20-foot, 30,000 pound mockup of the Massive Ordnance Penetrator (MOP) bomb into the bomb bay of a simulated B-2 stealth bomber at Whiteman AFB late last year.

The weapon will carry over 5,300 pounds of explosive material and will deliver more than 10 times the explosive power of its predecessor, the BLU-109. It is designed to penetrate up to

200 feet underground before exploding.

The GPS-guided bomb's development started in 2004 when the Air Force executed a contract with Boeing for the Pentagon's Defense Threat Reduction Agency.

Northrop Grumman started integrating the MOP to the B-2 in July 2007. The B-2 will be able to carry two MOPs, one in each bay, which will be mounted to the existing forward and aft mounting hardware currently in the B-2. ■

More JDAM Production Work for Boeing

Boeing was recently awarded a \$116 million USAF contract for more than 4,000 Joint Direct Attack Munition (JDAM) tail kits.

Boeing will deliver the kits in 2009 and 2010. The Lot 12 production contract also includes options for additional tail kits in Lots 13 -17, with a potential total value of \$590 million with deliveries through 2015.

JDAM is a low-cost guidance kit that converts existing 500-, 1,000- and 2,000-pound unguided free-fall bombs into accurately guided "smart" weapons. Boeing has produced more than 190,000 JDAM tail kits since 1998.

Meanwhile, the Bush administration has notified Congress of plans to sell Saudi Arabia 900 JDAM kits worth \$120 million as part of a multibillion-dollar package of advanced arms to Gulf Arab states. ■

\$29 Million for Hellfire II Production

Lockheed Martin has received a \$29 million production order from the U.S. Army for the combat-proven precision-strike HELLFIRE II air-to-ground missile. The order represents the final option under the U.S. Army's HELLFIRE II Buy 13 contract, which at \$306 million, is

the largest single buy in the history of the HELLFIRE II program. The final exercised option for Buy 13 is for 431 rounds, bringing the total number of rounds ordered under the contract to 4,622. The additional rounds are scheduled for delivery to the U.S. Army, Navy and Air Force, and the United Kingdom through a foreign military sale, beginning in 2008. The HELLFIRE II production contract covers three variants: the high-explosive anti-tank missile (AGM-114K), used against armored targets; the blast fragmentation missile (AGM-114M), effective against ships, caves, light armored vehicles, buildings, bunkers and other urban targets; and, the metal augmented charge missile (AGM-114N), which provides an enhanced blast fragmentation effect against enclosed structures and enemy combatants. ■

CALENDAR OF EVENTS

Precision Strike Annual Programs Review

Date: April 15-16, 2008

Theme: "Acquisition Excellence for Precision Strike Through Teamwork"

Location: Waterford Receptions, Springfield, VA

Precision Strike Summer Forum

Date: June 10-11, 2008

Theme: "Precision Fires as an Enabler for Force Dominance"

Location: Hilton Parsippany, Parsippany, NJ

Precision Strike Technology Symposium (PSTS-08)

(To be conducted at the SECRET/NOFORN level)

Date: October 28-30, 2008

Theme: "Compressing and Integrating the Kill Chain"

Location: Johns Hopkins University Applied Physics Laboratory, Laurel, MD

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Focus Areas

- Defense Priorities & Strategic Objectives
- Enduring Requirements of the War on Terrorism
- National Military Strategy of the United States of America
 - Army's Kill Chain Systems
 - Navy's & Marine Corps' Kill Chain Systems—*How the Navy uses Kill Chains*
 - Air Force's Kill Chain in OIF/OEF
- International Perspectives—*Airborne & Naval Precision Engagement*
 - Horn of Africa Operations
 - Acquisition Excellence & Teamwork
 - Acquisition Effects on the Precision Strike Kill Chain
 - The Key to Weapons that Work
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- Joint IED Defeat Organization (JIEDDO) Requirements
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 - Highly Precise Munitions Overview
 - Army PEO Munitions Programs Panel
- Navy's Integrated Specialty Site for Guns & Ammunition
 - Air Force Precision Programs
 - Navy's EM Gun Project
- Joint Munitions Command Activities, Munitions Logistics Support & Safety
 - Guided Missiles Overview & Fort Sill's Role in Precision Fires
 - Unmanned Aerial Systems Roadmap
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