



43RD ANNUAL ARMAMENT SYSTEMS:
GUN & MISSILE
SYSTEMS CONFERENCE
& EXHIBITION

**Strengthening Capability through People
and Technology**

**CONFERENCE
HIGHLIGHTS:**

- ▶ Panel session discussing UAV Weapon System Integration
- ▶ Discussion of gun and missile system requirements and trends
- ▶ Don't miss the Acquisition Training Seminar on Monday afternoon from 2-4pm. This session will provide program managers, scientists, and engineers with essential information to understand and operate effectively within the DoD acquisition system.
- ▶ The full scope of gun and missile tactical weaponry and related components will be discussed.



APRIL 21-24, 2008

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SHERATON NEW ORLEANS ▶ NEW ORLEANS, LOUISIANA

EVENT #8590

43RD ANNUAL ARMAMENT SYSTEMS: GUN & MISSILE SYSTEMS CONFERENCE & EXHIBITION

APRIL 21-24, 2008 ▶ NEW ORLEANS, LOUISIANA

This conference will address the theme, “Strengthening Capability through the Development of People and Technology”. The conference will provide a forum for discussing methods to enhance defense-related capabilities - not only through available technology, but also through development of personnel. A broad range of topics related to design and development of technology and training and development of people in the gun and missile system industry will be presented.

The full scope of gun and missile tactical weaponry and related components will be discussed including: direct/indirect/precision fire systems, tactical rockets and missiles, energetics, effectiveness, modeling and simulation, platform integration and emerging technologies.

MONDAY, APRIL 21



NEW IN 2008

MONDAY AGENDA

10:00 am - 4:00 pm
Exhibit Registration & Set-up

10:00 am - 6:00 pm
Registration Open

2:00 pm - 4:00 pm

ACQUISITION TRAINING SEMINAR

Mr. Jim Ripley, *PM Fire Support Systems, U.S. Marine Corps*

Overview: *This session will provide program managers, scientists, and engineers with essential information to understand and operate effectively within the DoD acquisition system.*

5:00 pm - 6:00 pm **RECEPTION**

Located in the Exhibit Hall

GENERAL CONFERENCE INFORMATION

During conference registration and check in, each participant was issued an identification badge. Badges must be worn at all conference functions.

Proceedings will be available on the web one to two weeks after the conference through the Defense Technical Information Center (DTIC). You will receive notification via email that proceedings are posted and available.

Appropriate dress for this conference is business casual for civilians and Class B uniform or uniform of the day for military.

Advertise in National Defense magazine and increase your company's exposure at this conference. National Defense magazine will be distributed to attendees at this conference and all other NDIA conferences. For more information, contact Dino Pignotti at 703-247-2541 or dpignotti@ndia.org.

TUESDAY, APRIL 22

- 7:00 am - 8:00 am** Registration & Continental Breakfast
Located in the Napoleon Foyer
- 8:00 am** **OPENING COMMENTS**
▶ Mr. Sam Campagna, *Director, Operations, NDIA*
- 8:05 am** **CONFERENCE OVERVIEW**
▶ Mr. Matthew Solverson, *NDIA Conference Chair; General Dynamics-OTS*
▶ Mr. Michael Till, *Chair, NDIA Gun & Missile Committee; Naval Surface Warfare Center Dalgren*
- 8:25 am** **USMC ARTILLERY**
▶ COL Scott Campbell, USMC, *Commanding Officer, Marine Detachment, Ft. Sill*
- 8:55 am** **TBD**
- 9:25 am** **ARMAMENT DIVISION OVERVIEW**
▶ Mr. Dave Broden, *Chair, NDIA Armament Division; Broden Resource Solutions, LLC*
- 9:35 am** **EXHIBIT HALL OPENS AND BREAK IN EXHIBIT HALL**
- 10:15 am - 11:15 am** **REQUIREMENTS & TRENDS**
Session Chair: Mr. Jim Ripley, *U.S. Marine Corps*
- 10:15 am** **6372—Safety Qualification Process for Navy Gun and Ammunition Systems**
▶ Ms. Eileen McConkie, *Naval Surface Warfare Center, Dahlgren*
- 10:35 am** **6435—Preserving Critical Knowledge**
▶ Mr. Roy Weber, *VSE Corporation*
- 10:55 am** **6526—Firing US 120MM Tank Ammunition in the Leopard 2 Main Battle Tank**
▶ Mr. Harlan Huls, *ATK Advanced Weapons Division*
- 11:15 am - 11:55 am** **DIRECT FIRE**
Session Chair: Mr. Don Guziewicz, *U. S. Army ARDEC*
- 11:15 am** **6491—Development of Light-weight 25MM (LW25) Family of Ammunition**
▶ Mr. Lee Olson, *ATK Medium Caliber Systems*
- 11:35 am** **S40MM X 180MM Common Case Design Progress**
▶ Mr. Zachary Kemp, *General Dynamics-OTS*
- 11:55 am - 1:15 pm** Luncheon
Located in Rhythms Ballroom, 2nd floor

KEYNOTE BIOGRAPHIES

COL SCOTT CAMPBELL, USMC

*Commanding Officer,
Marine Detachment, Ft.
Sill*



Colonel Scott T. Campbell is from Canton, Ohio. He received his Bachelor of Science degree in Physical Education from Norwich University and was commissioned a Second Lieutenant in May 1980.

He completed the Field Artillery Officer Advanced Course at Fort Sill, Oklahoma along with the Marine Corps Command and Staff College in Quantico, Virginia. He was selected for follow on assignment to the Naval War College in Newport, Rhode Island and received his Masters Degree in National Security and Strategic Studies.

He served as the S-3A where he participated in Operation Desert Shield and Desert Storm as part of the 5th Marine Expeditionary Brigade.

He was assigned to Headquarters, U.S. Marine Corps in Washington, DC where he served as Commanding Officer, Headquarters and Service Company, Headquarters Battalion; the Battalion S-3 Officer; and the Administrative Officer for Manpower Management Department, Navy Annex.

Colonel Campbell has served in several commanding positions to include command of the 12th Marine Regiment during July 2003 and was the Commanding Officer until July 2005. Following his command assignment, he served as the Chief of Staff, 3d Marine Division until June 2006.

Colonel Campbell assumed his current duties as the Commanding Officer, Marine Artillery Detachment, U.S. Army Field Artillery School, Fort Sill, Oklahoma, on 27 July 2006.

His personal decorations include the Legion of Merit, Bronze Star, Meritorious Service Medal with two gold stars, Navy Commendation Medal with two gold stars, Navy Achievement Medal, and the Combat action Ribbon.

TUESDAY, CONTINUED

KEYNOTE BIOGRAPHIES

CAPT JOSEPH MCGETTIGAN, USN

*Commander, Naval Surface
Warfare Center, Dalgren*



Captain Joseph L. McGettigan became the Commander of the Naval Surface Warfare Center, Dalgren Division (NSWCDD) on April 23, 2004, after serving as the Aircraft Carrier and Large Deck Combat System Project Manager in the Program Executive Office for Integrated Warfare Systems. He is a native of Pennsauken New Jersey and is a 1980 graduate of the U.S. Naval Academy.

His first assignment following graduation was onboard the USS MILLER (FF 1091) where he served as both the Anti-submarine Warfare Officer and the Auxiliaries and Electrical Officer. His subsequent sea tour was onboard the USS BELLEAU WOOD (LHA 3) as the Combat Systems Officer.

Shore assignments include the Naval Post-graduate School where he graduated with distinction; Puget Sound Naval Shipyard where he served as the assistant Ship Superintendent for the USS WHALE (SSN 638) and as the Senior Ship Superintendent for the USS TAU-TOG (SSN 639); Mobile Technical Unit Fifteen in Seattle WA where he was designated as the first Officer in Charge; the Naval War College; Naval Undersea Warfare Center in Newport RI where he performed duties as the Test and Evaluation Officer for the AN/BSY 2 Submarine Combat System and the AN/BQG 5 Wide Aperture Array Sonar; Cooperative Engagement Capability Program Office (PMS 465) where he served as the ACDS Block 1 Integration Manager and also as Deputy Program Manager; and the Director for International and FMS Programs within PEO IWS.

From January of 1999 until October of 2001 he was in Command of the Surface Combat Systems Center, Wallops Island, Virginia.

His academic degrees include a Bachelor of Science Degree in Naval Architecture, a Master of Science Degree in Undersea Warfare Technology and a Master of Arts Degree in National Security and Strategic Studies. His personal awards include the Legion of Merit, the Meritorious Service Medal, the Navy Commendation Medal, and the Armed Forces Expeditionary Medal. He is also the recipient of the Arleigh Burke Leadership Award presented by Surface Warfare Officer's School Command and the 2005 Nathaniel Stinson Equal Employment Opportunity Leadership Award presented by the Chief of Naval Operations and the Assistant Secretary of the Navy (Manpower and Reserve Affairs).

	Breakout 1	Breakout 2
	<i>Direct Fire</i> Session Chair: Mr. Don Guziewicz, U.S. Army ARDEC	<i>Effectiveness, Modeling, and Simulation</i> Session Chair: Mr. Jeff Siewert, Arrow Tech Associates, Inc.
1:15 pm	6351—Performance Assessment of the M1028, 120MM APERS Tank Round Mr. Brian Levine, U.S. Army Armament Research	6378—Alternative Lethality Mechanism Mr. Michael Lewis, Lockheed Martin Corporation
1:35 pm	6338—Ammunition for the MBT's Changing Role on the Modern Battlefield Mr. Jacob Moav, Israel Military Industries	6425—System Modeling for Projectile Design and Optimization Mr. Philip Brislin, U.S. Army ARDEC
1:55 pm	6337—30MM PGU-13 HEI Cartridge Improvements Mr. Kirk Gimmy, General Dynamics-OTS	
2:15 pm	6360—30MM Air Bursting Munitions for the MK44 Cannon Mr. Erik Elmer, ATK	6519—Development and Fielding of Excalibur Warhead Mr. Tim Sellers, General Dynamics-OTS
2:35 pm	6362—40MM Cased Telescope Technology Coming of Age: How France and the UK are working to bring the technology into the hands of the user Mr. Charles Hookey, BAE Systems, Land Systems	Evaluation of Fragmenting Warheads Mr. Jason Angel, U.S. Army Research Laboratory, WMRD

2:55 pm BREAK IN EXHIBIT HALL

	Breakout 1	Breakout 2
	<i>Direct Fire</i> Session Chair: Mr. Don Guziewicz, U.S. Army ARDEC	<i>Effectiveness, Modeling, and Simulation</i> Session Chair: Mr. Jeff Siewert, Arrow Tech Associates, Inc.
3:20 pm	6392—GD-OTS 20MM X 102MM Mechanically Fuzed Projectile Program Mr. Zachary Kemp, General Dynamics-OTS	
3:40 pm	6489—LW30 (30 X 113) Spotter Prototype Modeling and Simulation Mr. Jim Roth, ATK Medium Caliber Systems	6517—Development of the NLOS-LS PAM Warhead Mr. David Hunter, General Dynamics-OTS

	Breakout 1	Breakout 2
	<i>Energetics</i> Session Chair: Mr. Brian Tasson, ATK	<i>Effectiveness, Modeling, and Simulation</i> Session Chair: Mr. Jeff Siewert, Arrow Tech Associates, Inc.
4:00 pm	6533—Accelerated Burning of Gun Propellants by Effect of Gasdynamic Oscillations within the Perforations of Propellant Grains Mr. Gert Pauly, WTD 91, Germany	Extended Area Protection and Survivability ATO Status Mr. Arthur Aeberli, U.S. Army ARDEC
4:20 pm	Common Low-cost Insensitive Munitions Explosive Program to Replace TNT and Comp B Mr. Anthony Di Stasio, U.S. Army ARDEC	6440—Lean System Simulation of Guided Projectiles in the Early Development Stage Mr. Mark Steinhoff, Arrow Tech Associates, Inc.
4:40 pm	6341—Insensitive Munitions: A review of the State of the Art Mr. Bernie Halls, MSIAC, NATO HQ, Belgium	Benefits of Steeper Angle of Fall for Precision Projectiles Mr. Jim Rodrigue, Raytheon Missile Systems

- 5:00 pm - 6:30 pm Reception
Located in the Exhibit Hall
- 6:30 pm **EXHIBIT HALL CLOSES**
- 6:30 pm **ADJOURN FOR THE DAY**

WEDNESDAY, APRIL 23

- 7:00 am - 8:00 am Registration & Continental Breakfast
Located in the Napoleon Foyer
- 8:05 am **U.S. NAVY KEYNOTE**
▶ CAPT Joseph McGettigan, *Commander, Naval Surface Warfare Center, Dalgren*
- 8:35 am **INDUSTRY KEYNOTE**
▶ MG Julian Burns, USA (Ret), *Vice President, Business Development, BAE Systems*
- 9:05 am **PANEL DISCUSSION: UNMANNED AND AUTONOMOUS SYSTEMS WEAPONS INTEGRATION**
Moderator: Mr. Dave Broden, *Chair, NDIA Armament Division; Broden Resource Solutions, LLC*
▶ Mr. Robert Fondren, *Naval Surface Warfare Center, Dalgren*
▶ Ms. Kim Jones, *U.S. Army ARDEC*
▶ Mr. Ed Hackett, *iRobot/EH Group, Inc.*
▶ Mr. Ricky Houghton, *IBIS TEK*
▶ Mr. Adrian Erkenbrack, *Foster Miller/Defense Technology Solutions, LLC*
▶ Mr. Charlie McCullough, *BAE Systems*

KEYNOTE BIOGRAPHIES

MG JULIAN BURNS, USA (RET)

Vice President, Business Development, BAE Systems



Julian (JB) H. Burns, Jr., is Vice President for Business Development, Land & Armaments, BAE Systems, the producer of most combat and artillery systems for the US Army and Marine Corps, all the guns for the Navy, and for most of the Defense Industry in the UK and Sweden. He joined BAE in January 05 after some 3 decades of Army Service with worldwide experience in operations, force management and modernization in the Army and Joint arenas.

He has led the Company in unprecedented growth in a Global Armaments business in combat systems production and modernization, in FCS development (to include new solutions in robotics, survivability and lethality), in BRAC deliberations, in the Reset of returning forces from Southwest Asia to include the First Cavalry, the 3 ACR, and 3rd and 4th Infantry, and game-changing ventures in new business such as the Wheeled Market. He serves on the DOD Task Force for Business Transformation, in which capacity he works to re-industrialize Iraqi State-owned Industries, and has made several trips to the Theater.

General Burns holds a Bachelor of Science degree from West Point and was commissioned a Cavalry Officer, with Airborne and Ranger qualifications, in 1970. He holds a Master's Degree in ORSA/Systems Management from the University of Southern California; and is a graduate of Executive Programs with Indiana University for Philanthropic Studies, the Center for Creative Leadership, Harvard Business School, Darden Business School at UVA, and Chicago School of Business.

General Burns is an active athlete and sportsman. His wife, Ruth Ann (a native of El Paso), is the first female graduate of Texas A&M and a former Army Captain. They have three daughters: Joan, 1LT Julia Burns, 82nd ABN, USA, and Jacqueline, a Junior in Mid Eastern studies at Washington and Lee.

**AWARD
RECIPIENT**



MR. LEO D'ULISSE

Posthumously

After graduating from the New Jersey Institute of Technology with an Engineering degree, Leo started his career at Picatinny Arsenal in the Spring of 1989 as a ARCED Quality Assurance Engineer in the Tank Ammunition Branch. While in this group, Leo worked primarily on the 120mm M829A1 Kinetic Energy Tactical Cartridges. Some of his many accomplishments included coordination of the Production Qualification Testing and spearheading the Materiel Release Action for the M829A2, key involvement in resolution of early production issues involving the new M829A2 composite sabot and performing an environmental assessment of Tank Ammo.

In 1997 he was matrixed to then PM-TMAS' Quality Assurance Group where he supported the offices tank ammunition programs and became involved with Medium Cannon Caliber when that mission moved into TMAS.

Leo left the Government for Lucent Technologies in August of 2000 where he worked on 3rd Generation Wireless Technology initiative specifically in assuring Lucent's Base Station technology interfaced with the various cellular telephone manufacturers' technology.

Leo returned to Picatinny Arsenal ARDEC in June 2002 where he was hired as a Quality Engineering group leader for 40mm Grenades. Leo led a 3D Technical Data Package Update/ Re-write in support of the 40mm Systems Contract RFP.

He then returned to PM-MAS in 2005 to manage the M789 Light Weight 30mm HEDP Cartridge In-Bore Detonation Investigation effort for PM-MCC. Leo lead a formal cross-organizational investigational team to determine the root causes and necessary corrective actions to eliminate historical problems with in-bore detonations in the 30mm M789 used with the Apache Helicopter. As a result of his leadership skills, issues which haunted the ammunition for decades are better understood and multiple production process improvements were implemented in the ammunition production facility which will minimize the opportunity for the occurrence of an in-bore detonation.

WEDNESDAY, CONTINUED

9:30 am EXHIBIT HALL OPENS

10:15 am BREAK IN EXHIBIT HALL

	Breakout 1	Breakout 2
	<i>Armament Subsystems</i> Session Chair: Mr. Greg Hill, Meggitt Defense Systems	<i>Platforms and Weapon System Integration</i> Session Chairs: Mr. Bob Glantz, ATK Gun Systems Mr. Scott Martin, Raytheon Company
10:50 am	AGS Rifling Twist Trade Study and Analysis Mr. Eric Laxton, Naval Surface Warfare Center, Dahlgren	6358—120MM XM360 Gun Technology Base Transition into (FCS) System Design & Development Program Mr. David Smith, U.S. Army ARDEC
11:05 am	6484—Guide MLRS Electronic Safety & Arming Devices, and Electronic Safety & Arming Fuze Mr. William Kurtz, KDI Precision Products	6404—V-22 Defensive Weapon Systems Mr. William McCartney, NAVAIR
11:25 am	6364—Transmission of Data Message through Contact Type Fuse Setter Mr. Ki-Up Cha, Agency for Defense Development, South Korea	6317—Capability Advancements in Gun Systems for Remote Weapon Systems Mr. James Lamb, ATK
11:45 am	6460—120MM Advanced Case Systems Mr. Antonio Spinella, U.S. Army ARDEC	6342—F-35 Lightning II STOVL/CV Gun System Update Mr. Douglas Parker, General Dynamics-ATP

12:05 am - 1:35 pm Luncheon & Awards
Located in the Rhythms Ballroom, 2nd floor

Trifiletti Award Recipient

- ▶ Mr. Leo D'Ulisse (*Posthumously*)

Military Operations Award Recipient

- ▶ COL Michael Smith, *Director, Armaments Engineering and Technology Center, U.S. Army ARDEC, Picatinny Arsenal, NJ*

	Breakout 1	Breakout 2
	<p><i>Armament Subsystems</i></p> <p>Session Chair: Mr. Greg Hill, Meggitt Defense Systems</p>	<p><i>Platform and Weapon System Integration</i></p> <p>Session Chairs: Mr. Bob Glantz, ATK Gun Systems Mr. Scott Martin, Raytheon Company</p>
1:35 pm	<p>6483—Common Safety & Arming For the ERGM and Excalibur Precision Guided Munition Systems</p> <p>Mr. William Kurtz, KDI Precision Products</p>	<p>6359—F-35 Lightning II CTOL Gun System Update</p> <p>Mr. David Maher, General Dynamics-ATP</p>
1:55 pm	<p>Barrel Vibration for Rapid-Fire Guns</p> <p>Dr. Thomas Dawson, U.S. Naval Academy</p>	<p>Electronic Test Fuze</p> <p>Mr. Wayne Worrell, Naval Surface Warfare Center, Dahlgren</p>

	Breakout 1	Breakout 2
	<p><i>Armament Subsystems</i></p> <p>Session Chair: Mr. Greg Hill, Meggitt Defense Systems</p>	<p><i>Energetics</i></p> <p>Session Chairs: Mr. Mike Thornton, NSWC Indian Head Mr. Brian Tasson, ATK</p>
2:15 pm	<p>6415—The Deployment Dynamics: Analysis of the 81MM Illumination Mortar Cartridge</p> <p>Mr. Seungeuk Han, U.S. Army RDECOM-ARDEC</p>	<p>6344—Insensitive Gun Propellants with Low Temperature Coefficient Based on DNDA</p> <p>Dr. Dietmar Mueller, Fraunhofer Institute Chemische Technologie</p>
2:35 pm	<p>MK44 IPT Update</p> <p>Maj John Medeiros, Jr., USMC, DRPM, Advanced Amphibious Assault</p>	<p>6371—Enhanced Ammunition Performance with ECL Technology</p> <p>Mrs. Kelly Moran, ATK AES</p>

	Breakout 1	Breakout 2
	<p><i>Precision Weapons</i></p> <p>Session Chair: Mr. Joe Buzzett, General Dynamics-OTS</p>	<p><i>Energetics</i></p> <p>Session Chairs: Mr. Mike Thornton, NSWC Indian Head Mr. Brian Tasson, ATK</p>
2:55 pm	<p>6355—Precision Strike to Enable the Battle Continuity in Space and Time</p> <p>Mr. Motti Eis, Israel Aerospace Industries</p>	

3:15 pm BREAK IN EXHIBIT HALL

AWARD RECIPIENT

COL MICHAEL SMITH, USA

Director, Armaments Engineering and Technology Center, U.S. Army ARDEC, Picatinny Arsenal, NJ



Colonel Michael J. Smith was born in Washington, D.C. and grew up in Booneville, Mississippi. He received a Regular Army commission in the Ordnance Corps at Mississippi State University in 1980 where he earned a Bachelor of Science in Nuclear Engineering. He also holds a Master of Science in Engineering Science from the Naval Postgraduate School and a Masters in Strategic Studies from the Army War College.

His military education includes the Basic and Advanced Ordnance Officer Courses, Command and General Staff College, the Advanced Program Management Course, and the Army War College.

His awards and decorations include the Legion of Merit (with Oak Leaf Cluster), the Defense Meritorious Service Medal (with two Oak Leaf Clusters), the Meritorious Service Medal (with two Oak Leaf Clusters), the Army Commendation Medal, the Army Achievement Medal, the National Defense Service Medal (with Oak Leaf Cluster), the Iraq Campaign Medal, the Global War on Terrorism – Service Medal, the Army Service Ribbon, the Army Overseas Ribbon, the Air Force Space Master Badge, the Office of the Secretary of Defense Staff Badge, and the Army Staff Badge.

He is married to the former Rita (Reets) Goddard of Booneville, Mississippi and has two Jack Russell Terriers - Sadie and Shyla.

**GUN AND MISSILE SYSTEMS
COMMITTEE MISSION**

The Gun and Missile Systems Committee promotes the exchange of program plans, system descriptions, and technical approaches for present and future gun systems greater than Cal 0.50. The term "Gun System" includes guns, feed systems, ammunition and associated fuzing, fire control, and platform integration. The Committee strives to provide the forum for users, program managers, developers, and producers throughout the U.S. and international industrial and government communities. We emphasize the need to improve the mission and cost effectiveness of gun systems through the use of innovative techniques in the areas of unique materials and processes, novel warhead designs, guided projectiles, and advanced propulsion systems.



WEDNESDAY, CONTINUED

	Breakout 1	Breakout 2
	<i>Precision Weapons</i> Session Chair: Mr. Joe Buzzett, General Dynamics-OTS	<i>Energetics</i> Session Chairs: Mr. Mike Thornton, NSWC Indian Head Mr. Brian Tasson, ATK
3:45 pm	6530—Impact of Precision Mortar Fires for the IBCT Mr. Rollie Dohrn, ATK	6527—Reduced Vulnerability and Enhanced Lethality of Direct Fire Large Caliber HE Ammunition for Mobile Gun Systems Mr. Roger Gelinas, General Dynamics-OTS/Canada
4:05 pm	6524—PGK and the Impact of Affordable Precision on the Fires Mission Mr. Douglas Storsved, ATK	6510—Accelerated Aging of the M864 Baseburner Assembly Dr. Eric Bixon, U.S. Army RDECOM ARDEC

4:00 pm EXHIBIT HALL CLOSES

	Breakout 1	Breakout 2
	<i>Precision Weapons</i> Session Chair: Mr. Joe Buzzett, General Dynamics-OTS	<i>Tactical Rockets/Missiles</i> Session Chair: Mr. Ed DePasqual, Nammo Talley Defense Systems
4:25 pm	6390—Quo Vadis After DPICM Mr. Harald Wich, Diehl BGT Defence	Sub-caliber Rocket Training Systems Mr. Kevin Thomas, Nammo Talley Defense Systems
4:45 pm	6522—MRM Dual Mode Seeker Gun Firing Test Results Mr. Rick Williams, Raytheon Company	6339—Improved Lethality Test Capabilities of the Arnold Engineering Development Center Mr. Brian Roebuck, Aerospace Testing Alliance

5:05 pm ADJOURN FOR THE DAY

THURSDAY, APRIL 24

7:00 am - 8:00 am Continental Breakfast
Located in the Napoleon Foyer

8:05 am **MISSILE AND ROCKETS KEYNOTE**
▶ COL Dave Rice, USA, *Project Manager, Precision Fires Rocket & Missile Systems*

8:35 am - 9:35 am **TACTICAL ROCKET AND MISSILES**
Session Chair: Mr. Ed DePasqual, *Nammo Talley Defense Systems*

8:35 am **AARGM: Strengthening DEAD Capability in the Fleet**
▶ Mr. Austin Miller, *ATK*

THURSDAY, CONTINUED

- 8:55 am 6363—Water Piercing Missile Launcher**
▶ Mr. John Basic, *Naval Surface Warfare Center, Dahlgren*
- 9:15 am - 10:25 pm NAVAL PLATFORMS**
Session Chair: Mr. Mike Till, *U.S. Navy*
- 9:15 am Advanced Gun System-DDG 1000**
▶ Mr. Joseph McPherson, *NAVSEA (PEO-IWS3C)*
- 9:35 am BREAK IN NAPOELON FOYER**
- 10:05 am Long Range Land Attack Projectile**
▶ Mr. John Rinko, *Naval Surface Warfare Center, Dahlgren*
- 10:25 am Advanced Gun Systems: Gun and Magazine**
▶ Mr. James Kidwell, *Naval Surface Warfare Center, Louisville Det.*
- 10:45 am - 12:05 pm EMERGING TECHNOLOGIES**
Session Chair: Mr. Steve French, *BAE Systems*
- 10:45 am 6373—Non-Destructive Internal Temperature Erosion and Heat Flux Measurements for Large Caliber Guns**
▶ Mr. Mark Mutton, *Industrial Measurements Systems, Inc.*
- 11:05 am 6349—The Combustion Light Gas Gun: A novel yet proven high velocity technology**
▶ Mr. David Kruczynski, *UTRON, Inc.*
- 11:25 pm Fuel Cells for Munitions**
▶ Mr. Edgar Seydel, *The Ashlawn Group*
- 11:45 pm 6332—Plasma-Enhanced Magnetron Technology for Durable Pollution-Free Coatings**
▶ Dr. Sabrina Lee, *U.S. Army ARDEC, Benet Labs*
- 12:05 pm - 1:15 pm Luncheon**
Located in Napoleon CD123
- 1:15 pm - 2:15 pm EMERGING TECHNOLOGIES**
Session Chair: Mr. Steve French, *BAE Systems*
- 1:15 pm 6314—Alternatives for Architecturing Low Cost Guide Projectiles**
▶ Mr. Chris Geswender, *Raytheon Company*
- 1:35 pm**
- 1:55 pm TBD**
▶ Mr. Bryan Freeman, *Naval Surface Warfare Center, Dahlgren*
- 2:15 pm CONFERENCE ADJOURNS**

KEYNOTE BIOGRAPHIES

COL DAVE RICE, USA
Project Manager, Precision Fires Rocket & Missile Systems



Colonel Dave Rice earned his commission through Officer Candidate School. Prior to accession in the Acquisition Corps, he held a variety of command and staff positions in Tactical Field Artillery units. As an Acquisition officer, he has been assigned to the MLRS Project Office, various positions on the Army and OSD Staffs in the Pentagon, and as Product Manager, Large Caliber Ammunition, Picatinny Arsenal, NJ. He is currently serving as Project Manager, Precision Fires Rocket and Missile Systems, Redstone Arsenal, AL.

SAVE THE DATE:

44th Annual Armament Systems: Gun & Missile Systems Conference & Exhibition

Event # 9590

April 6-9, 2009

Hyatt Regency Crown Center

Kansas City, Missouri



Promotional Partner

PROMOTIONAL PARTNER

ATK is a leading provider of advanced weapon and space systems with \$4.1 billion in annual sales, approximately 17,000 employees, and operations in 21 states.

ATK is the nation's largest manufacturer of small and medium caliber ammunition. Our ammunition product portfolio spans a broad range, from 5.56mm through .50 caliber rounds for handguns, shotguns, and rifles, to 20mm, 25mm, and 30mm rounds for air, land, and sea platforms, and large caliber ammunition for main battle tanks. We are developing environmentally friendly training ammunition, enhanced tactical ammunition, next-generation energetic materials and advanced propellants that will increase performance and lethality.

ATK is also a leading producer of Chain-gun® family of medium-caliber gun systems for ground combat, naval and air armament applications. ATK produces the M242 25mm cannon used on Bradley Fighting Vehicles, the MK44 30/40mm cannon for the U.S. Marine Corps' new Expeditionary Fighting Vehicle and the 30mm M230 cannon for the AH-64 Apache and AH-64D Apache Longbow helicopters.

Building on the capabilities of our core ammunition and rocket motor businesses, ATK is developing several breakthrough advanced weapon systems, such as the U.S. Navy's Advanced Anti-Radiation Guided Missile (AARGM) and the U.S. Army's Precision Guidance Kit (PGK), Spider Man-in-the-Loop Anti-Personnel Munition and Individual Airburst Weapon System (IAWS). Using state-of-the-art guidance, navigation and control systems, targeting systems, high-energy propellants, and advanced warheads, ATK is developing weapons that will fly farther and faster and strike their targets with unprecedented precision and lethality at affordable procurement costs.

ATK is the world leader in the design, development, and production of solid rocket propulsion systems for space, strategic-missile defense, and tactical applications. Our tactical rocket motor portfolio includes propulsion systems for air-to-air, air-to-surface, surface-to-air, and surface-to-surface missiles.

Additional ATK news and information can be found at www.atk.com.

ADDITIONAL AUTHORS

- 6314—Stephen Bennett
6317—Mark Coppens
6317—Roger O'Dell
6332—Rong Wei
6339—Richard Rushing
6349—Dennis Massey
6351—James Woodhouse
6358—Anthony Cannone
6360—Mark Tomes
6362—Trevor Sheehan
6362—Mike Duckworth
6363—Samuel Koski
6363—Jon Yagla
6364—Gun-Ha Lee
6364—Hong-Cheol Kim
6364—Chang-Ki Cho
6371—Beat Vogelsanger
6371—Steven Ritchie
6372—Dennis Bushor
6372—John Filo
6372—Dwight Roberson
6373—Donald Yuhas
6373—Greg Walker
6373—Peter Schmidt
6374—Elias Jelis
6377—Tung Chan
6404—William Cosgrove
6404—Dave Weinstein
6415—Raymond Trohanowsky
6415—Andrew Maulbeck
6460—Enrico Mutascio
6515—Dan Boeka
6515—Dave Saito
6515—Art Daniels
—Christopher English
6517—David Hunter
6517—Jim Strom
6517—William Zarr
6518—Rick Tuznik
6518—Tracey Westmoreland
6519—Terry Young

