

# 46th ANNUAL TARGETS, UAVS & RANGE OPERATIONS SYMPOSIUM & EXHIBITION

SUPPORTING THE WARFIGHTER IN TIMES OF CHANGE

*“Test Like You Train . . . Train Like You Fight”*

## ONSITE AGENDA

Symposium Highlights:

- ▶ Keynote Address by Mr. Michael Crisp, Deputy Director, Air Warfare, DOT&E
- ▶ Keynote Address by Maj Gen David Eichhorn, USAF, Commander, Air Force Flight Test Center, Edwards AFB, CA
- ▶ Hugh Harris Memorial Golf Tournament on Wednesday, October 8, 2008
- ▶ Willis Howard Award Presentation on Thursday, October 9, 2008



**OCTOBER 8-10, 2008**  
[WWW.NDIA.ORG/MEETINGS/9410](http://WWW.NDIA.ORG/MEETINGS/9410)

**HENRY B. GONZÁLEZ CONVENTION CENTER ▶ SAN ANTONIO, TX**

**EVENT #9410**

## WEDNESDAY, OCTOBER 8, 2008

- 10:00 AM **Hugh Harris Memorial Golf Tournament**  
▶ Mr. Bob Palmer, Meggit Defense Systems, Inc., Canada; Golf Tournament Director
- 1:00 PM - 6:30 PM **Registration Open**
- 5:00 PM - 6:30 PM **Welcome Reception in Exhibit Hall**

## THURSDAY, OCTOBER 9, 2008

- 7:00 AM - 8:00 AM **Continental Breakfast in Exhibit Hall; Registration Open**
- 8:00 AM - 8:10 AM **Welcome Remarks and Keynote Speaker Introduction**  
▶ Mr. David Laird, Director of Programs, Micro Systems, Inc.; Symposium Chairman
- 8:10 AM - 8:50 AM **Keynote Address**  
▶ Mr. Michael Crisp, Deputy Director, Air Warfare, DOT&E
- SESSION I: RANGES AND RANGE OPERATIONS**
- 8:50 AM - 9:00 AM **Session Introduction**  
▶ Mr. Craig Tangedal, Systems Engineer, 5D Systems
- 9:00 AM - 9:20 AM **Integrated Network Telemetry (iNET)**  
▶ Mr. Thomas Grace, Chief Engineer, Test Article, ATL-TRMC, Naval Air Warfare Center
- 9:20 AM - 9:40 AM **Gulf Range Drone Control System (GRDCS): Past, Present, Future**  
▶ Mrs. Sandra Brown, 46 VTS Specialized Engineering Flight Commander, 46 RANG/VTSO
- 9:40 AM - 10:05 AM **Break in Exhibit Hall**
- 10:05 AM - 10:25 AM **Combat Hammer**  
▶ Lt Col Dean Ostovich, USAF, 86 Fighter Weapon Squadron/CC, Eglin AFB, FL
- 10:25 AM - 10:45 AM **Common Range Integrated Instrumentation System (CRIIS)**  
▶ Mr. Mike Sorial, Director, 672nd Armament Systems Squadron
- 10:45 AM - 11:05 AM **Changes and Upgrades on the Sea Range**  
▶ Ms. Karen Draper, Deputy, Test Management Division, Pt. Mugu
- 11:05 AM - 11:25 AM **Combined Aerial Target Service (CATS) – Long Term Service Provision**  
▶ Mr. John Childs, Aerial Targets Business Development, QinetiQ Ltd.
- 11:25 AM - 11:45 AM **Creating Precision Target, UAV and Range RF/IF Signals for Analysis, R&D and T&E**  
▶ Mr. Steve Williams, Business Area Manager, Signal Monitoring, RT Logic
- 11:45 AM - 12:05 PM **Surface Target Vector Scorer for Enhanced Fleet Training Capabilities**  
▶ Mr. Rob Couture, Director, Electronic Systems, Meggitt Defense Systems, Inc.
- 12:05 PM - 12:15 PM **Willis Howard Award Presentation**  
▶ Mr. David Miller, Business Development, Meggitt Defense Systems, Inc.; Division Chairman
- 12:15 PM - 1:30 PM **Lunch in Exhibit Hall**

### SESSION II: NEW TECHNOLOGY

- 1:30 PM - 1:40 PM **Session Introduction**  
▶ Mr. Dennis Mischel, Target Assessment Lead and Target Investment Program Manager, DOT&E
- 1:40 PM - 2:25 PM **Application of Unmanned Vehicles in Border Security**  
▶ Maj Gen Michael C. Kostelnik, USAF (Ret), Assistant Commissioner, Office of CBP Air and Marine, U.S. Customs and Border Protection
- 2:25 PM - 3:10 PM **Cost of Readiness Earned from Range Use**  
▶ Mr. Steve Shegrud, Whitney, Bradley & Brown, Inc.
- 3:10 PM - 3:40 PM **Break in Exhibit Hall**
- 3:40 PM - 4:00 PM **Threat Representation Investments in Support of Weapon Testing**  
▶ Mr. Ken McCormick, Chief, MST, Test & Evaluation Threat Resource Activity (TETRA), Missile Space and Intelligence Center
- 4:00 PM - 4:10 PM **Hugh Harris Scholarship Update**  
▶ Mr. Cort Proctor, Consultant, Micro Systems, Inc.

## THURSDAY KEYNOTE ADDRESS

Mr. Michael Crisp, Deputy  
Director, Air Warfare,  
DOT&E



## FRIDAY KEYNOTE ADDRESS

Maj Gen David Eichhorn, USAF,  
Commander, Air Force Flight  
Test Center, Edwards AFB, CA



4:10 PM - 4:30 PM

**Super Sonic Sea Skimming Target: A Lower Cost Alternative**

- ▶ CDR Noel Purcell, Royal Canadian Navy, National Defence Headquarters

4:30 PM - 6:00 PM

Reception in Exhibit Hall

## FRIDAY, OCTOBER 10, 2008

7:00 AM - 8:00 AM

Continental Breakfast in Exhibit Hall; Registration Open

8:00 AM - 8:15 AM

**Welcome Remarks and Keynote Speaker Introduction**

- ▶ Mr. David Laird, Director of Programs, Micro Systems, Inc.; Symposium Chairman

8:15 AM - 9:00 AM

**Keynote Address**

- ▶ Maj Gen David Eichhorn, USAF, Commander, Air Force Flight Test Center, Edwards AFB, CA

### **SESSION III: CURRENT TRENDS**

9:00 AM - 9:10 AM

**Session Introduction**

- ▶ Mr. Jack Chancellor, Business Development, Meggitt Defense Systems, Inc.

9:10 AM - 9:30 AM

**Predator Operational Test & Evaluation**

- ▶ Capt Brian Beecher, USAF, 53rd Test Management Group/Det 4

9:30 AM - 10:00 AM

Break in Exhibit Hall

10:00 AM - 10:20 AM

**BQM-167A: Air Force Subscale Aerial Target (AFSAT) Update; The Fire Jet**

- ▶ Mr. Jeff Herro, VP of Business Development, Composite Engineering, Inc.

10:20 AM - 10:50 AM

**Micro UAVs**

- ▶ Mr. Steve Bishop, Program Manager, Air Force Special Operations Command, Unmanned Systems Technology Office

10:50 AM - 11:10 AM

**F-35 Training Requirements**

- ▶ Maj Lee "Vandal" Kloos, USAF, F-35 Deputy for Flying Training Beddown, AETC F-35 Program Integration Office, Eglin AFB, FL

11:10 AM - 11:30 AM

**Telemetry Solutions for Targets and UAVs**

- ▶ Mr. John Watson, Director, New Product Development, Dynetics Corp.

11:30 AM - 11:50 AM

**Program Update**

- ▶ Mr. Steve Moore, Project Director, Aerial Target Flight Services, PM ITTS Targets Management Office, Redstone Arsenal, AL

11:50 AM - 1:30 PM

Lunch in Exhibit Hall (Last Chance to View Exhibits)

1:30 PM

Exhibit Hall Closes

### **SESSION IV: MILITARY PROGRAMS AND REQUIREMENTS**

1:30 PM - 1:40 PM

**Session Introduction**

- ▶ Mr. Ken Hislop, QF-16 Program Manager, Eglin AFB, FL

1:40 PM - 2:00 PM

**U.S. Navy**

- ▶ CAPT Pat Buckley, USN, Program Manager, Aerial Target and Decoy Systems, PMA-208, Patuxent River, MD

2:00 PM - 2:20 PM

**U.S. Army**

- ▶ Mr. Alvin Brown, Director, Targets Management Office, Redstone Arsenal, Huntsville, AL

2:20 PM - 2:40 PM

**U.S. Air Force**

- ▶ Ms. Michele Brazel, Director, 691st Armament Systems Squadron, Eglin AFB, FL

2:40 PM - 2:50 PM

**Concluding Remarks**

- ▶ Mr. David Laird, Director of Programs, Micro Systems, Inc.; Symposium Chairman

## **SYMPOSIUM CONTACTS**

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## **ATTIRE**

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

## **ID BADGES**

During symposium registration and check-in, each attendee will be issued an identification badge. Please be prepared to present a valid picture ID. Badges must be worn at all symposium functions.

## **PROCEEDINGS**

Proceedings will be available on the web through the Defense Technical Information Center (DTIC):

<http://www.dtic.mil/ndia/2008targets/2008targets.html>

You will receive an email notification once the proceedings are available.

**THANK YOU TO OUR SPONSOR, MEGGITT DEFENSE SYSTEMS (MDS)**

# MEGGITT

Meggitt Defense Systems (MDS) is proud to sponsor the NDIA Targets Symposium. MDS is a world leading designer and producer of sub-scale free flying and towed targets with well over 140,000 targets delivered to the U.S. and allied forces over our company's history. Our products range from the 180-300 knot class Banshee and Voodoo powered targets to the 400 knot class GT-400 glide target and a wide portfolio of towed targets and highly reliable reeling machines and tow lines. Our targets can be modified with signature augmentation devices to match training threats in the visible IR and radar spectrums. MDS also designs and produces a wide variety of Acoustic and Doppler radar-based scoring systems for both scalar and vector applications along with associated ground stations for rapid feedback during engagements. We have also developed and fielded the Aerial Weapon Scoring System (AWSS) that has become the U.S. Army's standard for objective weapons evaluation during Apache crew qualification gunnery tables.

MDS' other technologies include airborne countermeasure systems, ammunition handling systems and environmental control systems. Our Training Systems group in Atlanta, Georgia specializes in live-fire range Targetry, control and instrumentation for various weapon types ranging from small arms through full tank rounds and virtual training ranges utilizing the latest in computer generated graphics for full immersion scenarios from individual weapons to full combat unit engagements, including calls for fire and air strikes.

Our company's goal is to support our armed forces with the best training and combat systems possible so the soldiers can train like they fight and fight like they train. We take pride in our combat systems' reliability from towed countermeasures to ammunition handling systems – all proven in combat in the harshest environments in the world. Our motto, "Smart engineering for extreme environments" means we take great pride that our equipment will work the first time and every time, wherever deployed.

Please visit the Meggit Defense Systems website:  
[www.meggittdefense.com](http://www.meggittdefense.com)

**THANK YOU FOR ATTENDING!  
WE'LL SEE YOU NEXT YEAR IN SAVANNAH, GA  
NOVEMBER 10-12, 2009**