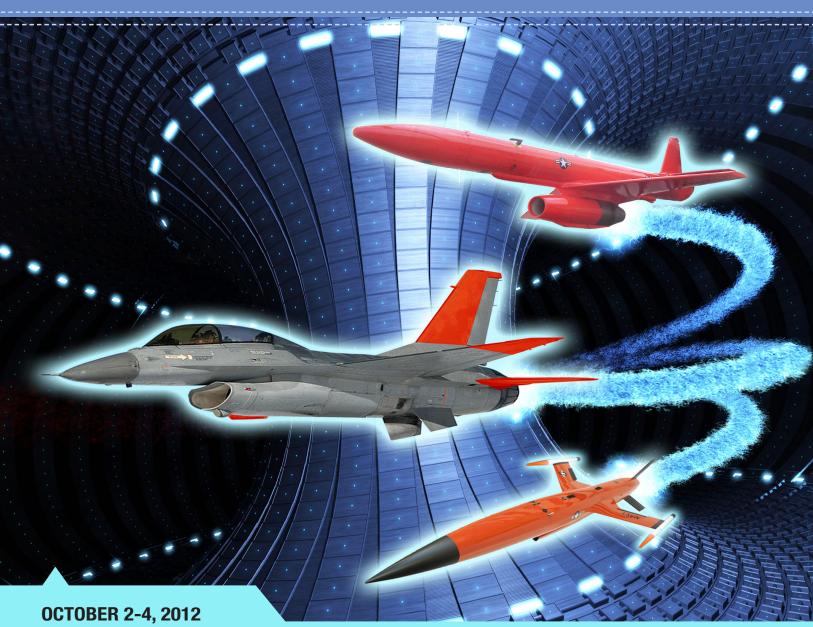


50th Annual

TARGETS, UAVS & RANGE OPERATIONS SYMPOSIUM & EXHIBITION

"The Future of Testing and Training"



LOCATION

Hyatt Regency Orlando International Airport 9300 Jeff Fuqua Blvd. Orlando, FL 32827 (407) 825-1234

SYMPOSIUM THEME

This year's 50th Annual Symposium & Exhibition theme is, "The Future of Testing and Training." The goal of this three day, unclassified event will be to foster the technical exchange of information on current and future requirements for testing and training in a funding-short, threat-rich environment. Air systems will include piloted and remotely-piloted fixed and rotary-wing aircraft. In addition, land and waterborne robotic vehicles and vessels will be included as focus areas.

WILLIS HOWARD AWARD

The Willis Howard Award is presented annually at the symposium to the person, either corporate or military, who in the view of the NDIA Targets Division Executive Board, has demonstrated both sustained superior service within the communities now represented by the NDIA Targets Division, as well as active service to the Division.

Named after Mr. Willis Howard, one of the founding owners of Cartwright Electronics (now a division of Meggitt Defense Systems, Inc.), it is the highest award presented within the Targets community. Mr. Howard was also one of the founding corporate members of the NDIA Targets Division, which was originally the Aerial Targets Division of the American Ordnance Association. He was an extremely active member of the Division who presented papers, chaired Sessions, and was Chairman of the Annual Symposium on two occasions.

Mr. Howard was killed in an auto accident while working with the USAF Weapons Evaluation Group at Tyndall Air Force Base. He was so well respected throughout the Targets community that the Division implemented an award in his honor.

HUBERT D. HARRIS SCHOLARSHIP PROGRAM

The Hubert D. Harris Scholarship Program was established in 1991 to memorialize Mr. Hugh Harris for his many contributions to the Targets community in both government and industry. The NDIA Targets Division has been joined by NDIA's Gulf Coast Chapter as a co-sponsor of the Scholarship Program.

Mr. Harris was a longtime member and leader in various professional organizations including IEEE, AOC, and ADPA (forerunner of NDIA). He served two years as the National Chairman for the Aerial Targets and RPV Section, working closely with all three military services. Subsequent to his death on June 9, 1991, Mr. Harris was the posthumous winner of the Division's Willis Howard Award for outstanding service.

The Scholarship is presented annually to a deserving high school senior who will be entering an accredited four-year university in pursuit of a math, engineering, or hard science degree. Profits from the Hubert D. Harris Memorial Golf Tournament supplement the \$50,000 base scholarship fund.

TUESDAY, OCTOBER 2, 2012

11:00 AM - 6:30 PM

Registration Open

Regency Ballroom Foyer

5:30 PM - 6:30 PM

Welcome Reception (Hosted Beer and Wine)

Intercontinental Ballroom - Exhibit Hall

WEDNESDAY, OCTOBER 3, 2012

7:00 AM - 6:45 PM

Registration Open

Regency Ballroom Foyer

7:00 AM - 8:00 AM

Continental Breakfast

Regency Ballroom Foyer

8:00 AM - 8:15 AM

Welcome Remarks and Keynote Speaker Introduction

by Symposium Co-Chairmen

Regency Ballroom

► MG Barry D. Bates, USA (Ret), Vice President, Operations, National Defense Industrial Association

► Mr. Al Brown, Director, Targets Management Office, Redstone Arsenal, Huntsville, AL; Symposium Co-Chairman, NDIA Targets Division

► Mr. Craig Tangedal, Vice President, 5-D Systems, Inc.; Symposium Co-Chairman, NDIA Targets Division

8:15 AM - 9:00 AM

Keynote Address

Regency Ballroom

► Mr. James Amato, SES, Executive Director, U.S. Army Operational Test Command, Fort Hood, TX

9:00 AM - 6:45 PM

Exhibit Hall Open

Intercontinental Ballroom - Exhibit Hall

SESSION I: RANGES AND RANGE OPERATIONS

9:00 AM - 9:10 AM

Introduction by Session Chair

Regency Ballroom

► Ms. Robbin Finley, Lead Project Director, PM ITTS -Targets Management Office, Redstone Arsenal, Huntsville, AL

9:10 AM - 9:35 AM

Definition of an Innovative Information Sharing Architecture: Development and Deployment of the Common Range Integrated Instrumentation System (CRIIS)

Regency Ballroom

▶ Mr. James Marek, Principal Systems Engineer, Rockwell Collins

9:35 AM - 10:00 AM

F-35 Range Requirements

Regency Ballroom

► Col Bradley McCoy, USAF (Ret), F-22 & F-35 Strategy and Assessment, Strategic Studies Group, Lockheed Martin Aeronautics Co.

REGISTRATION

Regency Ballroom Foyer

GENERAL SESSION

Regency Ballroom

EXHIBIT HALL

Intercontinental Ballroom

EXHIBIT HALL HOURS

Tuesday, October 2, 2012 5:30 PM - 6:30 PM

Wednesday, October 3, 2012 9:00 AM - 6:45 PM

Thursday, October 4, 2012 9:00 AM - 1:30 PM

ATTIRE

Appropriate dress for the 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.

10:00 AM - 10:40 AM Networking Break

Intercontinental Ballroom - Exhibit Hall

10:40 AM - 11:00 AM Common Range Integrated Instrumentation System (CRIIS) USAF Update

Regency Ballroom

► Ms. Amanda Taylor, Systems Engineer, Common Range Integrated Instrumentation System (CRIIS), Eglin AFB, FL

11:00 AM - 11:20 AM E

Evolution of Unmanned Targets and Range Capabilities

Regency Ballroom

► Mr. Maurice Bobbitt, Unmanned Targets Engineer, 96 RANSS/RNRT, Eglin AFB, FL

11:20 AM - 11:40 AM

RF Channel Simulation: Realistic Test and Training for Targets, UAVs and Ranges

Regency Ballroom

► Mr. Steve Williams, Business Area Manager, Signals Instrumentation, RT Logic

11:40 AM - 12:00 PM

Fort Bliss Range Testing Update

Regency Ballroom

► Mr. Alton Anderson, Range Operations Officer, DPTM-S Range Branch, Fort Bliss, TX

12:00 PM - 12:20 PM

Operating a Flight Test Center in the NAS

Regency Ballroom

► Mr. Dennis Zaklan, Deputy Director, UAS FTC, New Mexico State University

12:20 PM - 1:40 PM

Networking Lunch

Intercontinental Ballroom - Exhibit Hall

1:40 PM - 1:50 PM

Hubert D. Harris Scholarship Program Update

Regency Ballroom

► Mr. Cort Proctor, Consultant, Micro Systems, Inc.; Chairman, Scholarship Program, NDIA Targets Division

1:50 PM - 2:00 PM

Willis Howard Award Presentation

Regency Ballroom

► Mr. David Miller, Business Development, Meggitt Defense Systems, Inc.; Chairman, NDIA Targets Division

SESSION II: NEW TECHNOLOGY

2:00 PM - 2:10 PM

Introduction by Session Chair

Regency Ballroom

► Mr. Maynard Factor, Business Development Engineer, Micro Systems, Inc.

2:10 PM - 2:30 PM

Navy Common Data Link (NCDL)

Regency Ballroom

► Mr. Mick Owens, Director of Hardware Engineering, Micro Systems, Inc.

2:30 PM - 2:50 PM Maverick UAS Test Program

Regency Ballroom

Mr. Chris Whitaker, Senior Engineer, U.S. Special

Operations Command, SORDAC

2:50 PM - 3:30 PM Networking Break

Intercontinental Ballroom - Exhibit Hall

3:30 PM - 3:50 PM Advancements in Tow Targets

Regency Ballroom

▶ Mr. Gary Freudenberger, Business Development,

Composite Engineering, Inc.

3:50 PM - 4:10 PM The eAPU - New Technology Auxiliary Power

Regency Ballroom

► Mr. Karl W. Poulsen, VP and General Manager,

Microturbo, Inc.

4:10 PM - 4:30 PM New Tactical Applications of Multiple Armed

Collaborative SUAS on a Common Target

Regency Ballroom

► Mr. W. "Skip" Parish, COO and Director, Unmanned

Aerial Technology PTY, LLC

4:30 PM - 4:50 PM Reusable Surrogate Missile Targets

Regency Ballroom

► Mr. Geoffrey Babb, Missile Airframe Simulation Testbed

(MAST) Program Lead, U.S. Army AMRDEC, Redstone

Arsenal, Huntsville, AL

4:50 PM - 5:10 PM 5th Generation Aerial Target

Regency Ballroom

▶ Mr. Steve Fendley, President, 5-D Systems, Inc.

5:10 PM - 6:45 PM Networking Reception (Hosted Beer and Wine)

Intercontinental Ballroom - Exhibit Hall

THURSDAY, OCTOBER 4, 2012

7:00 AM - 3:05 PM Registration Open

Regency Ballroom Foyer

7:00 AM - 8:00 AM Continental Breakfast

Regency Ballroom Foyer

8:00 AM - 8:10 AM Welcome Remarks and Keynote Speaker Introduction by Symposium Co-Chairmen

Regency Ballroom

► Mr. Al Brown, Director, Targets Management Office, Redstone Arsenal, Huntsville, AL; Symposium Co-Chairman

NDIA Targets Division

► Mr. Craig Tangedal, Vice President, 5-D Systems, Inc.; Symposium Co-Chairman, NDIA Targets Division

DONATION

In lieu of Speaker gifts, a donation will be made to the Hubert D. Harris Scholarship Program.

PROCEEDINGS

Proceedings will be available on the web through the Defense Technical Information Center (DTIC) two weeks after the symposium. All registered Attendees will receive an email notification once the proceedings are available.

NDIA EVENTS

Thank you for your interest in the 50th Annual Targets, UAVs & Range Operations Symposium & Exhibition! We hope to see you at a future NDIA event. Please visit the NDIA website for a complete listing of the events we offer.

NDIA website: http://www.ndia.org

Select: Meetings & Events

ADVERTISING

Advertise in National Defense magazine and increase your organization's exposure. National Defense will be distributed to Attendees of this event, as well as other NDIA events. For more information, please contact Mr. Dino Pignotti, VP Advertising, at (703) 247-2541 or dpignotti@ndia.org.

8:10 AM - 8:50 AM Keynote Address: Update on the Use of UAS in Homeland Security Applications

Regency Ballroom

► Maj Gen Michael C. Kostelnik, USAF (Ret), Assistant Commissioner, Office of CBP Air & Marine, U.S. Customs and Border Protection

9:00 AM - 1:30 PM Exhibit Hall Open

Intercontinental Ballroom - Exhibit Hall

SESSION III: CURRENT DEVELOPMENTS

8:50 AM - 9:00 AM Introduction by Session Chair

Regency Ballroom

► Mr. Bruce Truog, Deputy Director, PM ITTS - Targets Management Office, Redstone Arsenal, Huntsville, AL

9:00 AM - 9:20 AM U.S. Army Live Force on Force Training Environment

Regency Ballroom

► LTC Scott Tufts, USA, Product Manager, Live Training Systems, PM Training Devices and PEO Simulation, Training and Instrumentation

9:20 AM - 9:40 AM An Update on the Land and Surface Target Scorer -Small Projectile Test Results

Regency Ballroom

► Mr. Gary Kemp, Program Director, Cambridge Consultants

9:40 AM - 10:00 AM Development & Testing of the Mobile Anti-Submarine Training Target (MASTT)

Regency Ballroom

► Mr. William Senke, Business Development Manager, Lockheed Martin Undersea Systems

10:00 AM - 10:40 AM Networking Break

Intercontinental Ballroom - Exhibit Hall

10:40 AM - 11:00 AM Use of Calibrated Airborne Targets for Validation of Radar Modeling and Simulation Results

Regency Ballroom

▶ Mr. Patrick Harris, President, Aeromation Corporation

11:00 AM - 11:20 AM Measuring Vehicle Environments and Testing Their Small Stabilized Payloads - A Simple, Affordable Approach

Regency Ballroom

► Mr. Greg Mooty, Principal, Ascendant Engineering Solutions

11:20 AM - 11:40 AM Next Generation Outlaw

Regency Ballroom

► Mr. Larry French, CEO/CTO, Griffon Aerospace

11:40 AM - 12:00 PM QF-16 Update: Flight Test Results in pre-EMD

Regency Ballroom

► Mr. Paul Cejas, Chief Engineer, QF-16 Full Scale Aerial Target, Global Services & Support, Boeing Defense, Space & Security (BDS) 12:00 PM - 12:20 PM Mosquito Unmanned Helo Target

Regency Ballroom

Mr. Spencer Fraser, President, Meggitt Training Systems,

Canada

12:20 PM - 1:30 PM Networking Lunch (Last Chance to View Exhibits)

Intercontinental Ballroom - Exhibit Hall

SESSION IV: MILITARY PROGRAMS AND REQUIREMENTS

1:30 PM - 1:40 PM Introduction by Session Chair

Regency Ballroom

▶ Mr. Ken Hislop, QF-16 Program Manager, AFLCMC/

EBYA, Eglin AFB, FL

1:40 PM - 2:00 PM CATS Program Evolution, Execution and Refreshment

Activities

Regency Ballroom

▶ Mr. Steve Attrill, Operations Delivery Manager, Test PT,

UK Ministry of Defence

▶ Mr. Rik Sellwood, Service Development Manager, Range

Capability Services, QinetiQ, Ltd.

2:00 PM - 2:20 PM U.S. Air Force

Regency Ballroom

► Mr. Paul Garvey, Materiel Leader, Aerial Targets,

AFLCMC/EBYA, Eglin AFB, FL

2:20 PM - 2:40 PM U.S. Army

Regency Ballroom

► Mr. Barry Hatchett, Lead Project Director, PEO STRI PM ITTSW - Targets Management Office, Redstone Arsenal,

Huntsville, AL

2:40 PM - 3:00 PM U.S. Navy

Regency Ballroom

Mr. Tim Barnes, Program Manager, Aerial Target and

Decoy Systems, PMA-208, Patuxent River, MD

3:00 PM - 3:05 PM Concluding Remarks by Symposium Co-Chairmen

Regency Ballroom

► Mr. Al Brown, Director, Targets Management Office, Redstone Arsenal, Huntsville, AL; Symposium Co-Chairman,

NDIA Targets Division

► Mr. Craig Tangedal, Vice President, 5-D Systems, Inc.;

Symposium Co-Chairman, NDIA Targets Division

3:05 PM Symposium Adjourned

SYMPOSIUM CONTACT

Ms. Meredith Geary, CMP Associate Director, Operations, NDIA (703) 247-9476 mgeary@ndia.org

EXHIBITS CONTACT

Ms. Cassandra Stewart Exhibits Manager, NDIA (703) 247-2582 cstewart@ndia.org

