

2018 GLOBAL EXPLOSIVE ORDNANCE DISPOSAL (EOD) SYMPOSIUM & EXHIBITION

MODERNIZING TO MEET NEW THREATS



August 14 - 15

Bethesda North Marriott

Bethesda, MD

NDIA.org/GlobalEOD18

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NDIN

WHO WE ARE

The National Defense Industrial Association is the trusted leader in defense and national security associations. As a 501(c)(3) corporate and individual membership association, NDIA engages thoughtful and innovative leaders to exchange ideas, information, and capabilities that lead to the development of the best policies, practices, products, and technologies to ensure the safety and security of our nation. NDIA's membership embodies the full spectrum of corporate, government, academic, and individual stakeholders who form a vigorous, responsive, and collaborative community in support of defense and national security. For more information, visit **NDIA.org**



LEADERSHIP

Nicole Motsek

EOD Warrior Foundation

EOD WARRIOR FOUNDATION

WHO WE ARE

The mission of the EOD Warrior Foundation is to improve the quality of life for the EOD family by providing financial relief, scholarship opportunities, physical, social, and emotional support.

The foundation offers four pillars of support (Financial Relief, Education, Hope & Wellness, EOD Memorial Care) and handles each request on a case-by-case basis. The assistance and resources provided are above and beyond the budgetary constraints of the Department of Defense (DoD) and Department of Veterans Affairs (VA).

The foundation believes that the EOD family is for life. We work to disarm the challenges of the EOD family by providing our support with compassion and caring to every individual we serve.



WELCOME TO THE 2018 GLOBAL EXPLOSIVE ORDNANCE DISPOSAL SYMPOSIUM & EXHIBITION

The National Defense Strategy of the United States has changed. We are no longer looking at counter insurgency in southwest Asia, and the fight against terrorism as the most significant threats against the United States and our allies and partners. Granted, the fight against violent extremist organizations continues, as do our deployments to Iraq, Syria and Afghanistan, but the major focus of the Department of Defense has changed to near peer competitors, namely China, Russia, Iran, North Korea. This is not a new mission to our EOD forces, but it is a change to the environment in which we will be expected to operate.

The theme of this symposium, "modernizing to meet new threats", seeks to bring this new strategic direction to the forefront of our discussions between the military, industry, and academia. We hope to explore where the Services' EOD forces are going, both Jointly and singly, and what are their current and future requirements. To that end we have front loaded requirements briefings from the Joint Improvised Threat Defeat Agency (JIDO), and three of the four Services. Its important to continue a strong dialog between the Services requirements developers and industry partners to ensure industry can "skate to where the puck is going to be". Likewise, requirements developers need to understand the current state of technology to appropriately shape their requests for proposal.

The rest of the event seeks to reach out to our interagency partners, with high level speakers from the FBI and the DHS. This year we have the strongest international panel ever. We continue to reach out to non-traditional partners, including private companies that are engaged in weapons technical information collection; companies engaged in UXO and IED clearance; non-governmental humanitarian organizations; and academics who provide different viewpoints to many issues. Many of the most innovative approaches are coming from these non-traditional partners, and I encourage both government and industry to engage them.

The EOD Warrior Foundation continues to be a strong partner in this symposium, making sure we are also taking care of our EOD Warriors. The Foundation's Executive Director, Nicole Motsek, will provide us with an update on the Foundation's activities to "Disarm Challenges"; on day two, we will hear about current research into brain injury; and MG (ret) Manner, a member of the Foundation's advisory board, will provide a seminar on military to civilian transition.

I challenge all attendees to seek out and talk to two individuals they don't know at this weeks event. I guarantee you will find someone interesting.

Thanks, and enjoy the symposium!

Leo Bradley

EOD Symposium Chair
Owner, L.E. Bradley Consulting, LLC

SCHEDULE AT A GLANCE

TUESDAY, AUGUST 14

Networking Breakfast

7:00 - 8:00 am

General Session

8:00 am - 12:30 pm

Exhibit Hall

9:00 am - 6:30 pm

Networking Lunch

12:30 - 1:30 pm

Concurrent Sessions

1:30 - 5:00 pm

Networking Reception

5:00 - 6:30 pm

WEDNESDAY, AUGUST 15

Networking Breakfast

7:00 - 8:00 am

General Session

8:00 - 11:45 am

Exhibit Hall & Silent Auction

9:00 am - 3:00 pm

Networking Lunch

11:45 am - 12:45 pm

Concurrent Sessions

12:45 - 2:15 pm

General Session

2:15 - 5:15 pm

EVENT INFORMATION

LOCATION

Bethesda North Marriott 5701 Marinelli Road Bethesda, MD 20852

EVENT WEBSITE

NDIA.org/GlobalEOD18

EVENT THEME

Modernizing to Meet New Threats

ATTIRE

Civilian: Business Casual

Military: Class B or Uniform of the day

SURVEY AND PARTICIPANT LIST

You will receive via email a survey and list of attendees (name and organization) after the symposium. Please complete the survey, which helps make our event even more successful in the future.

EVENT CONTACTS

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(703) 247-2554 and Sponsorships
alane@ndia.org (703) 247-9461
aabdala@ndia.org

Daniel Lung
Program Coordinator
(703) 247-9476

dlung@ndia.org

LEADERSHIP

Leo BradleyEOD Symposium Chair

Eugene Squires
EOD Committee Chair

SPEAKER GIFTS

In lieu of speaker gifts, a donation is being made to the Fisher House Foundation.

HARASSMENT STATEMENT NDIA is committed to providing a professional environment free from physical, psychological and verbal harassment. NDIA will not tolerate harassment of any kind, including but not limited to harassment based on ethnicity, religion, disability, physical appearance, gender, or sexual orientation. This policy applies to all participants and attendees at NDIA conferences, meetings and events. Harassment includes offensive gestures and verbal comments, deliberate intimidation, stalking, following, inappropriate photography and recording, sustained disruption of talks or other events, inappropriate physical contact, and unwelcome attention. Participants requested to cease harassing behavior are expected to comply immediately, and failure will serve as grounds for revoking access to the NDIA event.



AGENDA

MONDAY, AUGUST 13

1:00 - 5:00 pm

REGISTRATION OPEN

GRAND BALLROOM FOYER

TUESDAY, AUGUST 14

7:00 am - 6:30 pm REGISTRATION OPEN

GRAND BALLROOM FOYER

7:00 – 8:00 am **NETWORKING BREAKFAST**

GRAND BALLROOM FOYER

8:00 – 8:15 am **WELCOME REMARKS**

SALONS F-H

CAPT Frank Michael, USN (Ret)

Senior Vice President, Program Development, NDIA

Eugene Squires

Senior Partner, Squires & Fulcher, LLC

Chair, NDIA EOD Committee

Nicole Motsek

Executive Director, EOD Warrior Foundation

8:15 – 9:00 am **KEYNOTE SPEAKER**

SALONS F-H

LTG Reynold Hoover, USA

Deputy Commander, U.S. Northern Command, Vice Commander, U.S. Element, NORAD, USA

9:00 – 9:45 am **KEYNOTE SPEAKER**

SALONS F-H

Michael Cardash

Former Commander, Israeli National Police Bomb Squad

9:00 am - 6:30 pm EXHIBIT HALL OPEN

9:45 – 10:15 am **NETWORKING BREAK**

SALONS A-E

Silent Auction Begins

10:15 – 11:00 am JIDO TECHNOLOGY OUTREACH UPDATE

SALONS F-H

Dr. Catherine Keaty

Chief, Technology and Strategy Branch, JIDO

Lisa Swan, SES

Director, Material Solutions, Joint Improvised-Threat Defeat Organization

Jon Young

J8, JIDO

11:00 am - 12:00 pm PANEL: ARMY EOD FUTURE REQUIREMENTS

SALONS F-H

COL Martin Weber, USA

Director, TRADOC Capability Manager - EOD

Moderator

Louis Analure

Product Manager, Unmanned Ground Vehicles, PM Force Projection

Pat McGrath

Chief, Materiel Development Branch, TRADOC Capability Manager (TCM) EOD

Col Jonathan Slater, USA

Program Manager, Close Combat Systems

12:00 – 12:30 pm EOD WARRIOR FOUNDATION UPDATE: DISARMING CHALLENGES

SALONS F-H

Nicole Motsek

Executive Director, EOD Warrior Foundation

12:30 – 1:30 pm NETWORKING LUNCH

SALONS A-E

CONCURRENT BREAKOUT SESSIONS

1:30 – 2:30 pm Panel: Weapons Technical Intelligence Enterprise

SALONS F-H

LTC Philip Cordaro, USA

Joint Foreign Material Program Office, DIA

Moderator

MSgt Gage Coduto, USMC

EOD Advanced Manufacturing, USMC Detachment, Naval Surface Warfare Center Indian Head Division

Damien Spleeters

Director of Iraq-Syria Operations, Conflict Armament Research



1:30 - 2:30 pm

JIDO Technology Outreach: Technology Needs

WHITE FLINT AMPHITHEATER

Dr. Wayne Stanbery

Technology Development Lead Scientist

Moderator

Wearable Concealed Person Borne IED (PBIED) Sensors

Dr. Christopher Murphy
JIDO Contractor SME

Atomic Magnetometer Based IED Detection

Dr. Eun Oh

JIDO Contractor SME

Standoff Battery Drain and Verification

Dr. Hatcher TynesJIDO Contractor SME

2:30 - 3:00 pm

NETWORKING BREAK

SALONS A-E

3:00 - 4:00 pm

JIDO Technology Outreach: Technology Needs One-on-One Sessions

BROOKSIDE

3:00 - 4:00 pm

Panel: Navy/Joint Requirements, Resources and Acquisition Panel

SALONS F-H

RDML Joseph DiGuardo, USN

SOCOM Moderator

LCDR Alex Campbell, USN

Director, EOD Programs (PMS 408)

CAPT John Moulton, USN

Branch Head, Expeditionary Combat Branch (OPNAV N957)

Maj Jason Perry, USMC

Officer in Change, Marine Corps Detachment Indian Head

3:00 - 3:45 pm

Counter IED Breakout Session

WHITE FLINT AMPHITHEATER

Dr. Kirk Yeager

Chief Explosives Scientist, Federal Bureau of Investigation (FBI)

4:00 - 4:45 pm

Joint EOD Construct and Strategic Plan

WHITE FLINT AMPHITHEATER

CAPT Scott Kraft, USN

Commanding Officer, Naval Surface Warfare Center, Indian Head EOD Technology Division

4:00 – 5:00 pm Panel: USMC/CTTSO Requirements Panel

SALONS F-H

Steven Roberson

Business Development Manager, QinetiQ North America

Moderator

Joel Carter

Program Analyst, IED Defeat/Explosives Countermeasures Branch, Combating Terrorism Technical Support Office

CAPT Joe David, USMC

EOD Chief Information Officer, Combat Developments and Integration

5:00 – 6:30 pm **NETWORKING RECEPTION**

SALONS A-E

WEDNESDAY, AUGUST 15

7:00 am – 5:00 pm **REGISTRATION**

GRAND BALLROOM FOYER

7:00 – 8:00 am **NETWORKING BREAKFAST**

GRAND BALLROOM FOYER

8:00 – 8:15 am **ADMIN REMARKS**

SALONS F-H

Leo Bradley

Owner, L.E. Bradley Consulting, LLC

EOD Symposium Chair

8:15 – 9:15 am PANEL: CONGRESSIONAL POLICY

SALONS F-H

Col Wes Hallman, USAF (Ret)

Senior Vice President, Policy, National Defense Industrial Association

Moderator

Paul Arcangeli

Minority Staff Director, House Armed Services Committee (HASC)

Tim Bertocci

Deputy Chief of Staff, Office of Representative Tim Walz, EOD Caucus Co-chair

Maj Daniel Long, USAF

Legislative Liaison, U.S. Air Force

Ian Staples

Legislative Director, Office of Representative Susan Davis, EOD Caucus Co-Chair

9:00 am - 3:00 pm EXHIBIT HALL OPEN

SALONS A-E



9:15 – 10:00 am **KEYNOTE SPEAKER**

SALONS F-H

LTC Matt Kuhns, USA

Commander, 192nd OD BN (EOD)

10:00 - 10:30 am **NETWORKING BREAK**

SALONS A-E

10:30 – 11:15 am CWMD KEYNOTE: DHS PROGRAMS IN SUPPORT OF THE CWMD MISSION

SALONS F-H

Hon. James McDonnell

Assistant Secretary for Countering WMD, Department of Homeland Security

11:15 – 11:45 am **EOD WARRIOR FOUNDATION: BRAIN INJURY IMPACTS**

SALONS F-H

Alexandra Bradley MALS, MCHES, ATC

11:45 am - 12:45 pm **NETWORKING LUNCH**

SALONS A-E

Silent Auction Closes

CONCURRENT BREAKOUT SESSIONS

12:45 – 1:45 pm MILITARY TO CIVILIAN TRANSITION WORKSHOP: LESSONS LEARNED AND

TIPS ON BEING HAPPIER, MORE SUCCESSFUL, MORE RAPIDLY

WHITE FLINT AMPHITHEATER

MG Randy Manner, USA (Ret)

Executive Leadership Coach (Prev. Senior Partner, Korn Ferry)

12:45 – 2:15 pm PANEL: INTERNATIONAL VIEWS

SALONS F-H

Phil Ayrton

NDIA EOD Committee

Moderator

LTC Guy Decker, USA

SME EOD/CIED - Belgium Defense Staff

LTC Constantin Efrim, USA

NATO Counter-IED Center of Excellence

LTC Dirk Futchman, USA

German Army EOD-IED Army Concepts and Capabilities Development Center

CDR Giovani Modugno, USN Deep Sea Diver EOD - Italian Navy

2:15 – 3:15 pm PANEL: HUMANITARIAN MINE ACTION – ADAPTING TO THE CIED THREAT

SALONS F-H

Dr. Kenneth Rutherford

Director, Center for International Stabilization and Recovery, James Madison University *Moderator*

Gerald Guilbert

Deputy Director for Programs, Office of Weapons Removal and Abatement, U.S. Department of State

Allen Tan

Director of Applied Technology, Golden West Humanitarian Foundation, Augmented Reality Training

Jordan Wilhelm

Director of Operations, Janus Global

3:15 – 3:45 pm **NETWORKING BREAK**

GRAND BALLROOM FOYER

Silent Auction Payment/Pick Up

3:45 – 4:30 pm COUNTER UXO – ADDRESSING ENVIRONMENTAL IMPACTS

SALONS F-H

Dr. Herb Nelson

Director and Program Manager for Munitions, SERDP and ESTCP Initiatives

Dr. Valentine Nzengung

Professor, Environmental Geochemistry, University of Georgia

4:30 – 5:15 pm INNOVATIONS IN INFORMATION TECHNOLOGY FOR UXO

SALONS F-H

Allen Tan

Director of Applied Technology, Golden West Humanitarian Foundation, Augmented Reality Training

5:15 – 5:30 pm CLOSING REMARKS

SALONS F-H

Nicole Motsek

Executive Director, EOD Warrior Foundation

Eugene Squires

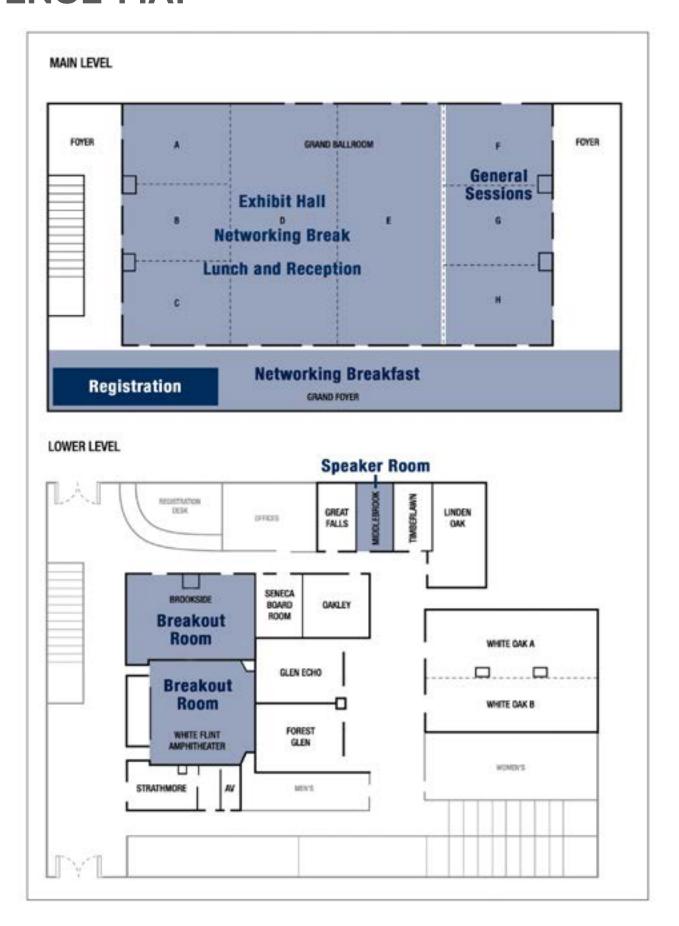
Senior Partner, Squires & Fulcher, LLC Chair, NDIA EOD Committee

5:30 pm SYMPOSIUM ADJOURNS

The NDIA has a policy of strict compliance with federal and state antitrust laws. The antitrust laws prohibit competitors from engaging in actions that could result in an unreasonable restraint of trade. Consequently, NDIA members must avoid discussing certain topics when they are together at formal association membership, board, committee, and other meetings and in informal contacts with other industry members: prices, fees, rates, profit margins, or other terms or conditions of sale (including allowances, credit terms, and warranties); allocation of markets or customers or division of territories; or refusals to deal with or boycotts of suppliers, customers or other third parties, or topics that may lead participants not to deal with a particular supplier, customer or third party.



VENUE MAP



BIOGRAPHIES



MICHAEL CARDASH

Former Commander
Isreali National Police Bomb Squad

Michael Cardash, the former deputy head of the Israeli National Police Bomb

Disposal Division served 27 years as a senior bomb technician. During those years he participated in numerous missions defeating IED's and other counter terrorist operations. He commanded bomb disposal units within the border guards and Israeli police, during intense terrorist conflicts gaining experience

investigating and responding to the variety of terror attacks and in particular to suicide bombing devices and incidents.

During his career Michael instructed law enforcement personnel and bomb technicians from around the world. He headed the Israeli police bomb disposal school teaching and guiding bomb technicians, assisted in founding counter terror security procedures and shared his experience with counter terror operatives around the world.

Michael currently authors the Terrogence Möbius C-IED reports analyzing and assessing global IED-related technical and tactical intelligence. He also provides advice, guidance and assistance for law enforcement, EOD and counter terror units in understanding, recognizing and responding to the IED threat.



LIEUTENANT GENERAL REYNOLD HOOVER, USA

Deputy Commander, U.S. Northern Command, Vice Commander, U.S. Element, NORAD U.S. Army

Lieutenant General Reynold N. Hoover is the Deputy Commander,

U.S. Northern Command, and Vice
Commander, U.S. Element, North American
Aerospace Defense Command at Peterson
Air Force Base, Colorado. As Deputy
Commander, General Hoover assists the
Combatant Commander in anticipating,
preparing and responding to threats
against North America and within Northern
Command's assigned area of responsibility.
Additionally, he provides oversight of U.S.
Northern Command's Defense Support to
Civil Authorities.

General Hoover graduated from the United States Military Academy in 1983 and was commissioned as a Military Police officer. After service as a platoon leader and company executive officer, he transferred to the Ordnance Corps and was trained as an Explosive Ordnance Disposal Officer. In 1988, General Hoover joined the Alabama Army National Guard where he subsequently commanded at the detachment, battalion, task force, and group levels. General Hoover deployed in support of Operation

Enduring Freedom from 2009-2010 where he commanded the Joint Sustainment Command in Kandahar. Most recently, he commanded the 167th Theater Sustainment Command from 2011-2014.

From 2002-2003, General Hoover served as Chief of Staff for the Federal Emergency Management Agency (FEMA). In this role, he was responsible for coordinating the day-today operations of FEMA and synchronizing emergency management functions across the interagency. Subsequently, he led FEMA's Office of National Security Coordination from 2003-2005. In 2005, General Hoover was appointed as Special Assistant to the President for Homeland Security. In addition to his role as Special Assistant, he also served as the Senior Director for Nuclear Defense & Continuity Policy on the Homeland Security Council. In this capacity, General Hoover was responsible for developing domestic nuclear defense policy recommendations and coordinated national continuity of government programs and policies.

From 2014-2016, General Hoover served as the National Guard Bureau's Director of Intelligence and Director of Command,

Control, Communications and Computers (C4). In this dual capacity, he provided strategic guidance on intelligence and C4 policy to the Chief of the National Guard Bureau and the Joint Staff, and ensured coordination of intelligence and C4-related matters across the Department of Defense. Prior to his current position, General Hoover served as Mobilization Assistant to the Director of the Defense Intelligence Agency.

General Hoover holds a Bachelor's of Science from the United States Military Academy, a Master's of Arts in Public-Private Management from Birmingham-Southern College, and a Master's in Strategic Studies from the U.S. Army War College. He also holds a Juris Doctorate from The Catholic University of America's Columbus Law School, and is a graduate of Harvard University's National & International Security Seminar. His awards and decorations include the Defense Superior Service Medal, Legion of Merit, Bronze Star, Meritorious Service Medal, Humanitarian Service Medal, and the Master Explosive Ordnance Disposal Badge.





LIEUTENANT COLONEL MATTHEW KUHNS, USA

Battalion Commander U.S. Army

Lieutenant Colonel Matthew L. Kuhns is a native of Ankeny, Iowa. He

commissioned as a Second Lieutenant in the Ordnance Corps through the Reserve Officer Training Corps (ROTC) upon graduation from Iowa State University in 1998. His previous assignments include: Platoon Leader and Direct Support Maintenance Shop Officer, B Company, 172nd Support Battalion; Material Readiness Officer and Deputy Chief Brigade Materiel Management Center (BMMC), Headquarters and Headquarters Company, 172nd Support Battalion, 172nd Infantry Brigade (Separate), Fort Wainwright, Alaska; Commander, 705th Ordnance Company (EOD), Fort Polk, Louisiana and Mosul, Iraq; Assistant S3 Operations Officer, 71st Ordnance Group (EOD), Fort Carson, Colorado; Response Team Leader and Training Officer, Combined Explosives Exploitation Cell (CEXC), Baghdad, Iraq; Liaison Officer from Combined Joint Task Force Troy (Counter-Improvised Explosive

Device) to Multi-National Corps-Iraq (MNC-I) Counter IED Intelligence Operations Center, Baghdad, Iraq; Officer in Charge, Engineer Explosive Ordnance Clearance Agent Course (E-EOCA), Fort Leonard Wood, Missouri; S3 Operations Officer, 3rd Ordnance Battalion (EOD), Joint Base Lewis McCord, Washington; J3 Operations Officer, Joint Task Force Paladin South (C-IED), Kandahar, Afghanistan; and C-IED Program Integrator, Branch Chief and Deputy Division Chief, Defense Threat Reduction Agency (DTRA), Joint Improvised-Threat Defeat Organization (JIDO), Washington D.C.

From July 2017 to March of 2018, LTC Kuhns served as the Commander of Task Force EOD assigned to United States Forces Afghanistan (USFOR-A) located at Bagram Airfield, Afghanistan in support of Operation Freedom's Sentinel.

His military education includes completion of the Ordnance Officer Basic Course; Combined Logistics Officer Advanced Course; Combined Arms and Service Staff School; Honor Graduate of the U.S. Navy School Explosive Ordnance Disposal; U.S. Army Command and General Staff College; and National Defense University - Joint Forces Staff College – Joint Professional Military Education Level II. He holds an MA in Management and Leadership from Webster University and a BA in Communications from Iowa State University.

LTC Kuhns' awards and decorations include the Bronze Star Medal (2 Oak Leaf Cluster), Defense Meritorious Service Medal (1 OLC), Meritorious Service Medal (2 OLC), Joint Service Commendation Medal (1 OLC), Army Commendation Medal (1 OLC), Army Achievement Medal (1 OLC), Afghanistan Campaign Medal, Iraq Campaign Medal, Global War on Terrorism Expeditionary Medal, Joint Meritorious Unit Award, Valorous Unit Award (1 OLC), Global War on Terrorism Service Medal, NATO Medal, and the Combat Action, Master Explosive Ordnance Disposal and Air Assault Badges.



HONORABLE JAMES MCDONNELL

Assistant Secretary for Countering Weapons of Mass Destruction Department of Homeland Security

James F. McDonnell was appointed by President Trump to serve as the Assistant

Secretary for the Department of Homeland Security's (DHS) Countering Weapons of Mass Destruction (CWMD) Office. The office's mission is to counter attempts at an attack against the United States or its interests using a weapon of mass destruction.

Before this, McDonnell was acting Assistant Secretary of CWMD and Director of the Domestic Nuclear Detection Office.

McDonnell is a recognized expert in MD-related terrorism. He served in the Navy for 20 years in special operations and counter terrorism. He founded the National Security Programs business unit at Oak Ridge Associated Universities and managed terrorism-related national security activities, including restructuring the technical response by the U.S. to nuclear terrorism threats.

McDonnell has senior executive experience in the federal government and the private sector, where he directed security, police, and other risk management functions. He has served in the Senior Executive Service in DHS, the Department of Energy, and the White House. Following the terrorist attacks of September 11, 2001, McDonnell became the founding director of the Department of Energy's Office of Energy Assurance.

When President George W. Bush announced the creation of DHS, McDonnell moved to the Homeland Security Transition Planning Office within the White House to begin the work of building the Department's infrastructure protection capability. As part of the original executive leadership team at the Department, he was responsible for the initial development and management of today's Infrastructure Protection Office. He formed and directed the development of several national programs at the Department, which

included management of security activities through several high-threat periods, the development of a National Protection Plan, and the implementation of the Buffer Zone Protection Plan.

McDonnell received his Bachelor of Science degree from Regents College, University of the State of New York, and earned a Master of Arts degree from Georgetown University. He also attended Harvard University's Senior Executives in National and International Security program. He has volunteered his time on boards, task forces, and advisory committees, with a focus on homeland security policy and community preparedness and response. McDonnell has published an article on nuclear terrorism response, as well as a book on domestic terrorism incidents. He has contributed to publications addressing corporate security, homeland security, and critical decision-making.

EXHIBIT HALL HOURS

TUESDAY, AUGUST 14

9:00 am - 6:30 pm

WEDNESDAY, AUGUST 15

9:00 am - 3:00 pm

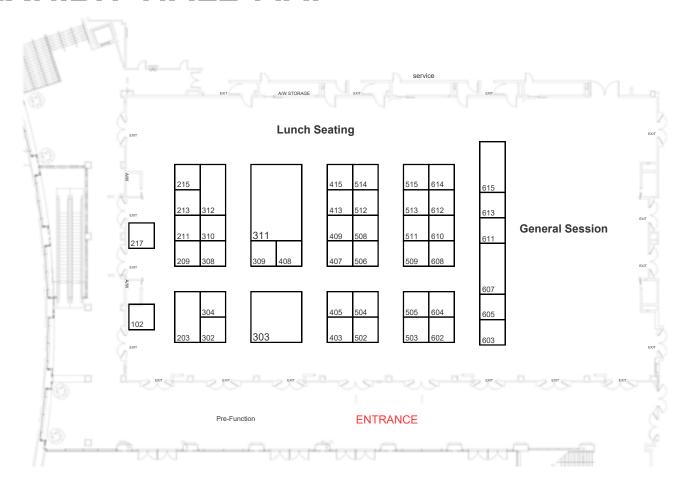
EXHIBITORS BY BOOTH NUMBER

PATCO Electronics	Explotrain, LLC
Federal Resources	Inert Products, LLC
Mithix Pro	Mohawk Electrical Systems, Inc 506
55th Ordnance Company (EOD)	RE2 Robotics
United States Bomb Technician Association 213	Alluviam, LLC
IABTI	Panasonic 511
QSA Global, Inc. 217	National Association of Ordnance Contractors 512
Sierra Nevada Corporation	Terrogence (a Verint Company)
ADS	Leidos
QinetiQ North America	Vidisco, Ltd
Optics1	908 Devices
Point One USA, LLC	Bren-Tronics, Inc. 603
Black Diamond Advanced Technology 310	Endeavor Robotics 604
Darley Defense	Honeywell (RAE Systems) 605
Roboteam	NSWC Indian Head EOD Technology Division 607
R3 Strategic Support Group	Bauer Compressors, Inc 608
Scanna MSC, Inc	Chemring Ordnance, Inc
CEIA USA	The Johns Hopkins University
Med-Eng	Applied Physics Laboratory 611
Red Lotus Technologies	EOD Warrior Foundation
Mistral, Inc. 413	Avatar Partners, Inc
Biosecumax, Inc	Golden Engineering
DHS Office for Bombing Prevention 502	Innervision Security / Novo DR

L3 Insight Technology 503



EXHIBIT HALL MAP



EXHIBITOR DESCRIPTIONS

55TH ORDNANCE COMPANY (EOD) 211 ADS

303

The 55th OD CO (EOD) conducts EOD operations to reduce or eliminate the hazards of munitions and explosive devices. On order, conducts defense support of civil authorities (DSCA) by providing explosive ordnance disposal (EOD) support to federal, state, and local LE agencies.

908 DEVICES

602

MX908TM increases mission support with unmatched flexibility and trace detection power for responders in priority drug, chemical, explosive and high-threat hazmat scenarios. Leveraging the power of HPMS, MX908 lightens the overall technology burden by displacing other less selective technologies from the response toolkit.

ADS, Inc. is a leading value-added logistics and supply chain solutions provider that proudly serves all: ADS, Inc. provides equipment, procurement, logistics, and supply chain solutions. We offer access to the largest product and service selection, the broadest array of procurement and contract options, and world-class expertise and support to assist you—every step of the way.

ALLUVIAM, LLC

509

Adopted by the US Military, NATO, coalition partners and other civilian, intelligence and military agencies, HazMasterG3 puts state-of-the-art HME/IED decision support in the hands of those that need it most. HazMasterG3 is the only handheld CBRNE/HME Decision Support System to have earned U.S. DHS (Department of Homeland Security) certification and designation as an approved anti-terrorism technology.

AVATAR PARTNERS, INC.

613

BREN-TRONICS, INC.

603

AVATAR Partners Inc. (API) is a women-owned small business that specializes in Simplifying Complex Systems for the Warfighter. Our solutions include Software, Logistics, Hardware and Training solutions for the Government. Innovation, flexibility and cost-effective solutions are what we do best. We have a 10 year track record of providing superior solutions on- time and within budget, ensuring highly satisfied customers.

Supporting warfighter/EOD teams for 45+ years, all made in the US Li-lon batteries for every major military robot system, small hand-held robots to larger robotic platforms on ground, air and sea Tactical chargers using mains, solar, vehicles (-40C / 80C) High power 24V Li-lon batteries to start/power vehicles (6T) + high energy batteries for mobile/fixed silent watch applications (>3 kWh) Accept no substitute, if you want a "BB-2590/U" there can be only one choice. Everything else is an imitation.

BAUER COMPRESSORS, INC.

608

BAUER COMPRESSORS is recognized as the world's foremost innovative designer and manufacturer of high pressure systems. BAUER's Breathing Air Compressor Systems and Components are the gold standard for fire-fighting, diving and military applications where reliable ultra-pure breathing air is required to maintain life safety. Each product within our portfolio is specifically designed for the end user application.

CEIA USA

407

CEIA Ground Search Metal Detectors provide overall superior performance in the areas of detection distance, soil compensation capability and immunity to external interference. CEIA USA provides nationwide sales, service and customer support to customers in North America. Dynamic solutions are the foundation of CEIA USA's commitment to customer satisfaction. For more information, visit www.ceia-usa.com.

BIOSECUMAX, INC.

415

BIOSECUMAX Inc. has been developing revolutionary ChemiFluorescence sensor and platforms that can detect hazardous substances in order to adapt into the volatile market trends and new emergence of technologies since 2013. Based on Vision bio-biometric technology and ultra-sensitive photochemical sensor technology, we will supply high-tech safety equipment needed for homeland security market and public safety market in a timely manner to meet customer's needs.

CHEMRING ORDNANCE, INC.

610

Chemring Ordnance, is located in Perry, FL and is subsidiary of Chemring Group, is a center of excellence for the design, development and production of Counter-IED Products (APOBS), ordnance, pyrotechnic products, and other munitions components for military, homeland security, and first responders. CORContacts@ChemringOrdnance.com

BLACK DIAMOND ADVANCED TECHNOLOGY

310

Black Diamond Advanced Technology (BDATech) is a Veteran-Owned Small Business headquartered in Chandler, AZ and a demonstrated leader in the tactical computing and communication systems industry. Our focus is the Dismounted Operator and providing with innovative, trusted technology to ensure mission success. We specialize in customized hub systems, engineered to withstand any environment, and control a variety of missions. Because when it matters most you want something Built. Tested. Proven.

DARLEY DEFENSE

311

Since 1908, Darley has been dedicated to serving the world's Fire & Emergency Services and Defense organizations. Darley remains a family owned and operated business with corporate headquarters in Illinois. In 2007, we were awarded the first of two major DLA contracts under the TLSP for Fire & Emergency Services Equipment (F&ESE) and Special Operational Equipment (SOE). Equipment can be ordered through TLS, GSA, DoD FEDMALL, or open market. Visit www.darleydefense.com to view our Capabilities.



DHS OFFICE FOR BOMBING PREVENTION

502

The Office for Bombing Prevention (OBP) leads the Department of Homeland Security's (DHS) efforts to implement the National Policy for Countering Improvised Explosive Devices (National Counter-IED policy) and enhance the nation's ability to prevent, protect against, respond to, and mitigate the use of explosives against critical infrastructure; the private sector; and federal, state, local, tribal, and territorial entities.

ENDEAVOR ROBOTICS

604

Endeavor Robotics is the world's largest provider of tactical unmanned ground vehicles, delivering more than 6,500 robots to customers in over 40 countries. We design and build the most trusted, rugged, easiest-to-operate robots used to safeguard life and property around the world, whatever the mission. Every day, our products operate in areas of conflict, assist law enforcement agencies, and respond to natural disasters to help save lives.

EOD WARRIOR FOUNDATION

612

The EOD Warrior Foundation is a 501(c)(3) non profit organization that was established through the March 1, 2013 merger of the EOD Memorial Foundation and the Wounded EOD Warrior Foundation to streamline and increase our capacity to support the EOD community.

EXPLOTRAIN, LLC

504

Since 1999, Explotrain's patented technologies have been used to provide more effective training in EOD, C-IED, K9 and Battlefield Effects. Our non-pyrotechnic Blast Simulators and Inert Functional IED training aids provide a safe, realistic, and cost effective solution for creating functional training environments.

FEDERAL RESOURCES

203

Federal Resources offers safety and homeland security products backed by the deep product knowledge you need. Federal Resources is a GSA Contract holder and DOD EMall Contract holder, who is dedicated to providing best in breed products that meets all customers expectations. Industries we serve are Industrial, Fire/EMS, Military, & Law Enforcement. Federal Resources team strives to meet mission critical delivery requirements allowing our users to execute their mission.

GOLDEN ENGINEERING

614

605

Golden Engineering manufactures battery powered portable X-ray generators. Our generators are used for EOD applications by all branches of U.S. military, various government agencies, and municipal bomb squads. We recently redesigned all four models reducing their size and weight and increasing their user interface user interface capabilities. Come see our new products at booth 614.

HONEYWELL (RAE SYSTEMS)

RAE Systems by Honeywell innovates, designs and manufactures gas sensors and radiation detectors. RAE Systems' rugged, proven, and integrated multi-gas and radiation detectors meet all military standards and specifications. Easy to maintain in the field and with a global infrastructure for comprehensive support, our products operate on an open platform and can integrate

IABTI 215

with other third-party systems. Our real-time safety and threat

detection systems helps save lives and maintain safety.

The International Association of Bomb Technicians & Investigators (IABTI) is an independent, non-profit, international professional association formed to counter the criminal use of explosives. Our goal is achieved through the exchange of information, expertise, and training: in-service training & technology expos, bi-monthly magazine & annual EOD Equipment Buyer's Guide, certification as Certified International Post Blast Investigator, Scholarships, Accidental Death Assistance, and much more.

INERT PRODUCTS, LLC

505

Inert Products, LLC provides Law Enforcement, Homeland Security and the United States Department of Defense with extremely durable, highly realistic inert training aids used in training against terrorist threats. Located in Scranton, PA, Inert Products, LLC produces and supplies support materials used by security forces in training to recognize, respond to, and mitigate the threat of explosives & terrorism.

INNERVISION SECURITY / NOVO DR

615

InnerVision Security serves the extensive security industry with advanced technology bringing solutions "into view" for the many potential threats we face each day throughout the world. Committed to providing the best solutions for the men and women who expose themselves to these dangers keeping our country, borders, buildings, and families safe.

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY 611

The Johns Hopkins University Applied Physics Laboratory (APL) presents the NAVSEA Advanced EOD Robotic System (AEODRS) program, encouraging widespread industry participation to fulfill the EOD mission through integration of various capability modules via a common system architecture, system testbed for test development and compliance, and representative integration platforms for risk reduction.

L3 INSIGHT TECHNOLOGY

503

L3 Insight Technology is a global leader in the development and production of advanced night vision and electro-optical technology and systems for the U.S. military, federal agencies, public safety and sporting communities, and international markets. Insight Technology provides the most extensive portfolio of products supporting the warfighter, offering all essential systems to enable them to accurately see, maneuver, locate, target and fire during the day, at night or in adverse weather.

LEIDOS 514

Leidos is a science and technology solutions leader working to address some of the world's toughest challenges in national security, health, and engineering. Supporting vital government and commercial missions, we develop innovative solutions to drive better outcomes, and defend critical infrastructures from 'new world' threats. For more information, visit www.leidos.com.

MED-ENG

408

All branches of the U.S. military trust Med-Eng bomb suits for life-saving protection against Improvised Explosive Devices (IEDs) and other blast threats, while Med-Eng suits, robots, blast sensors and specialized tools are trusted in 100 countries worldwide. Med-Eng is a brand of the Safariland Group.

MISTRAL, INC.

413

Mistral Security, Inc. serves as a "bridge" between the requirements of the Department of Homeland Security, law enforcement agencies and private sector security with innovative, relevant and ready solutions for the challenges faced while out in the field. Continuous analysis of capability gaps and existing technologies enables MSI to stay ahead of the problems faced by these markets today, tomorrow and into the future.

MITHIX PRO

209

Mithix Pro LLC is a SDVOSB US Business established in 2007. We manufacture tools, equipment, kits and custom kit solutions for EOD, Bomb Squads, Special Forces, Combat Engineers, Demining, Recon and other Forward Operators. Mithix Pro Equipment is used for search, identification, remote and semi-remote manipulation, render-safe, and disablement of IEDs, booby-traps, landmines, HAZMAT Materials and other hazardous devices as well as survival, safety, rescue and recovery operations.

MOHAWK ELECTRICAL SYSTEMS, INC.

506

Working from customer specifications, Mohawk Electrical Systems, Inc. combines precision manufacturing capabilities with quality components to produce custom, basic or multi-stage assemblies used in the defense, oil and gas, pyrotechnics, instrumentation and mining industries. Core Products include: Bridgewire and Ordnance Products Electromechanical Assemblies Cable and Harness Assemblies Molded Elastomeric Products M18A1 & M68 Claymore Weapon Systems ISO 9001:2015

NATIONAL ASSOCIATION OF ORDNANCE CONTRACTORS

512

NAOC is an industry trade association representing 86 companies performing services to address munitions and explosives of concern (MEC). NAOC members provide the following services: MEC detection, management and disposition; construction support and removal actions; site characterizations and investigations; geophysical surveying (terrestrial and aquatic) and data analysis; environmental sampling and data analysis; regulatory coordination; and project planning and reporting documents.



NSWC INDIAN HEAD EOD TECHNOLOGY DIVISION

607

The Indian Head EOD Technology Division develops and delivers Explosive Ordnance Disposal (EOD) technology, knowledge, tools and equipment and their life cycle support to meet the needs of the Department of Defense, combatant commanders and our foreign and interagency partners, and supports the Executive Manager for EOD Technology and Training.

OPTICS1 308

Optics 1 is a global leader in full-service state-of-the-art design and production of electro-optical products, systems, and sensors. We specialize in the design of compact, high-performance electro-optical systems including visual augmentation systems, laser range finder systems, and long-range precision targeting and observation devices. Optics 1 is able to provide unmatched first-class electro-optical systems for warfighter and law enforcement missions.

PANASONIC

511

Powerful, Rugged and Wireless. The wide variety of form factors available from Panasonic rugged and reliable mobile computers and tablets are designed to survive the rigors of the real-life business world.

PATCO ELECTRONICS

102

PATCO Electronics, division of Creating Technology Solutions LLC, is a leading-edge designer of custom rechargeable Lithium Ion (Li-Ion) batteries, chargers and engineered power management solutions. PATCO's 294-Watt Hour, 10.2 Amp Hour BB-2590/U battery, NSN 6140-01-653-1517, is NAV SEA S9310 safety tested, approved for use on military and first responder EOD robotic platforms. PATCO is an EDWOSB/WOSB certified company and all products are manufactured here in the United States of America.

POINT ONE USA, LLC

309

Point One is an SDVOSB dedicated to providing the highest quality training, services and products in the most comprehensive manner with superior results. Decades of experience in the SOF and EOD communities within joint, multi-agency, and national level environments ensures we are the best choice to provide the services offered.

QINETIQ NORTH AMERICA

304

QinetiQ North America (QNA) provides cutting-edge technology and revolutionary products to the defense, security and military markets. Our product offerings include tactical land vehicle and aircraft protection, sensors to protect soldiers, unmanned robots in a variety of sizes and with varying capabilities and power and control systems. Customers rely on our products to enhance security, aid in personal safety, streamline operations, increase situational awareness and improve efficiencies.

OSA GLOBAL INC.

217

QSA Global, Inc., manufacturer of OpenVision™ live-video x-ray systems, has a worldwide reputation for quality, reliability and safety.

OpenVision™ achieves real-time inspection and investigation of unattended items and suspicious situations. OpenVision™ is lightweight and flexible, enabling mission specific configurations; reducing risk while investigating potential threats and is deployable in hand-held or robot equipped mode in under two minutes.

R3 STRATEGIC SUPPORT GROUP 403

R3 Strategic Support Group, Inc. (R3) is an agile SDVOSB that provides innovative strategic solutions across a broad spectrum of government and commercial domains. Our principal mission areas include Counter-IED; Explosive Ordnance Disposal (EOD); Asymmetric and Irregular Warfare; Expeditionary and Joint Operations.

RE2 ROBOTICS

508

RE2 Robotics develops robotic manipulator arms that enable robots to better interact with the world – whether on the ground, in the air, or underwater. RE2 designs robust modular manipulators and humanlike dual-arm robotic systems with easy-to-use imitative controls that can be easily integrated onto a variety of platforms and enable personnel to perform dangerous and complex tasks at a safe distance. Learn more at www.resquared.com or email info@resquared.com.

RED LOTUS TECHNOLOGIES, INC. 409

Red Lotus Technologies, Inc. is a product design and development company based in Santa Clara, California. We build Augmented Vision products to help protect human life. As IEDs become more complex, effective handheld detection skill becomes essential. Our visual feedback product, VAST, automates the assessment of handheld detection skill for IEDs and Landmines, it is quick and easy for instructors to "see" how good or bad an operator is. www.redlotustech.com

ROBOTEAM

312

Roboteam designs, develops and manufactures cutting edge, user-oriented, multi-purpose, unmanned platforms and controllers for Defense, Law Enforcement and Public Safety missions. We created a line of lightweight, fast deployable systems that deliver technological and functional breakthroughs for tactical purposes with unmatched reliability. Among our customers are top units within the US Military, Special Forces, EOD units and SWAT teams as well as other elite units around the globe.

SCANNA MSC, INC.

405

Scanna MSC, Inc. is a worldwide manufacturer and supplier of portable x-ray systems for defense and security applications. Our specialisation is integrating and customising x-ray imaging panels and components into highly reliable software controlled x-ray imaging solutions that work with Golden generators. Our Range Of Portable X-rays Include Scanx Scout CR Scansilc DR systems. The new Scansilc systems combine solid state flat panel amorphous silicon technology with fast x-ray acquisition .

SIERRA NEVADA CORPORATION 302

Sierra Nevada Corporation (SNC) provides customer-focused solutions in the areas of aerospace, aviation, electronics, and systems integration, with applications including telemedicine, navigation systems, threat detection and security, and infrastructure protection. Founded in 1963 and headquartered in Nevada, SNC has a global workforce supporting its customers. www.SNCorp.com / EWR@sncorp.com

TERROGENCE (A VERINT COMPANY)

513

Founded in 2004, Terrogence is a global pioneer and leader in the field of Web Intelligence (WEBINT). For over 14 years, Terrogence (a Verint Company) has been specializing in delivering targeted and actionable intelligence in fields such as Terror and Organized Crime, Cybercrime, Improvised and Homemade Explosive (IED and HME), and more. Using its 60+ in-house Expert Analysts, Terrogence delivers a unique suite of Counterterror Intelligence Reports to Government and LEA customers globally.

UNITED STATES BOMB TECHNICIAN ASSOCIATION

213

The Mission of the United States Bomb Technician Association is to assemble a community of operators, academics, equipment suppliers and innovators and provide a forum for them to share resources, ideas, and experiences in order to establish a network for collaboration in current and future endeavors to strengthen the community and enhance public safety.

VIDISCO, LTD

515

Vidisco's portable digital X-ray systems offer the optimal solution when dealing with modern threats. Each of our ruggedized solutions can be carried by a single bomb tech into the roughest terrain, providing fast and safe operation and enabling informed decision making on the spot. Vidisco's Advantages: - A Full robot integration -User focused and intuitive operating software with a single capture click and one touch filters -Plug & Play solutions For more details contact us: security@vidisco.com



THANK YOU TO OUR SPONSORS



SIERRA NEVADA CORPORATION

PREMIER SPONSOR

Sierra Nevada Corporation (SNC) is a trusted leader in solving the world's toughest challenges through advanced engineering technologies in Space Systems, Commercial Solutions, and Defense and National Security.

SNC delivers customer-focused technologies and best-of-breed systems integrations in the aerospace and defense sectors. With applications including navigation and guidance, communication and surveillance systems, electronic warfare, aircraft systems and telemedicine, SNC provides state-of-the art solutions to military and commercial customers around the world.

The drive to transform humanity through technology and imagination has fueled SNC's steady expansion from its headquarters in Nevada to 33 locations worldwide. SNC is a team of nearly 4,000 people—from scientists and cybersecurity experts to software engineers and former military leaders—united in support of customer needs.

SNC has been honored as a Tier One Superior Supplier for the U.S. Air Force, consistently ranks among America's fastest growing companies, and was selected to represent the commercial space industry before the newly formed National Space Council as one of the most innovative U.S. companies in space.

Founded in 1963 and headquartered in Sparks, Nevada, SNC operates under the leadership of owners, CEO Fatih Ozmen and President Eren Ozmen. For more than 50 years, customers have turned to SNC for its technical expertise and reputation for delivering results. SNC's impressive workforce surpasses the status quo by sourcing the best systems and talent, and reliably beating timelines and budgets.

Anchored by our heritage, we dream without limits and work to empower the next generation of engineers and innovators so we can all realize a better, safer world.



FEDERAL RESOURCES

ELITE SPONSOR

Federal Resources is a single source provider of customized, integrated solutions teams need to successfully complete critical mission assignments. With more than three decades of specialized experience, coupled with industry connections and trusted partnerships, FR helps the military, first responders and organizational professionals equip, train and maintain every component of their next mission, program or project.

Delivering comprehensive, mission-based solutions, Federal Resources serves the vast global military and government markets facing critical defense developments and other challenges. Using FR's advanced proprietary technology, a selection of top-notch vendor partners enjoined with a skilled corps of training professionals, Federal Resources delivers success. On time and on budget.

With hundreds of trusted vendor relationships around the globe, Federal Resources excels in locating and delivering the exact tools teams require to proceed, quickly and efficiently. FR personnel stays informed of the most advanced, relevant equipment made available from top manufacturers. Our company's reputation as cutting-edge problem-solvers is unsurpassed. Let us guide you in your quest for the best possible solution and every component to support it.

Serving warriors and heroes in multiple markets, Federal Resources proudly supports those who protect us all.





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