

2019

# GLOBAL EXPLOSIVE ORDNANCE DISPOSAL SYMPOSIUM & EXHIBITION

Innovation for the Future



#### **MONDAY, AUGUST 5**

1:00 - 5:00 pm

**REGISTRATION OPEN** 

**GRAND FOYER** 

#### **TUESDAY, AUGUST 6**

7:00 am - 5:00 pm

**REGISTRATION OPEN** 

**GRAND FOYER** 

7:00 - 8:00 am

**NETWORKING BREAKFAST** 

**GRAND FOYER** 

8:00 - 8:15 am

**WELCOME REMARKS** 

GRAND BALLROOM F - H

**Eugene Squires** 

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

COL Leo Bradley, USA (Ret)

Symposium Chair, NDIA EOD Committee

8:15 - 9:00 am

**KEYNOTE SPEAKER** 

GRAND BALLROOM F - H

Michael Cardash

Former Commander, Israeli National Police Bomb Squad

9:00 am

**EXHIBIT HALL OPENS** 

GRAND A - E

9:00 - 9:45 am

**MISSION KEYNOTE** 

GRAND BALLROOM F - H

LTC Jeanette Bartoromo, USA

Battalion Commander, Operation Inherent Resolve-Combine Joint Task Force, USA

Invited

9:45 - 10:15 am

**NETWORKING BREAK** 

**EXHIBIT HALL** 

**SILENT AUCTION BEGINS** 



10:15 - 11:00 am

**KEYNOTE ADDRESS: CWMD BRIEF** 

**GRAND BALLROOM F-H** 

RDML Joseph DiGuardo, USN

Director, Counter-Weapons of Mass Destruction-Fusion Center, U.S. Special Operations Command (USSOCOM)

**BREAKOUT SESSION** 

BROOKSIDE

10:15 - 11:30 am

MILITARY TO CIVILIAN TRANSITION WORKSHOP

**GREAT FALLS** 

MG Randy Manner, USA (Ret)

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

11:00 - 11:30 am

**EOD WARRIOR FOUNDATION UPDATE** 

GRAND BALLROOM F - H

Nicole Motsek

Executive Director, Explosive Ordnance Disposal Warrior Foundation

IGNITION GENERATOR FOR INSENSITIVE AND TAILORABLE EFFECTS, AS A WARHEAD INITIATOR (IGNITE)

WHITEFLINT AMPITHEATER

Eric Enig

President and CEO, Enig Associates, Inc.

11:30 - 12:30 pm

**NETWORKING LUNCH** 

EXHIBIT HALL

12:30 - 1:00 pm

**COMBATING TERRORISM TECHNICAL SUPPORT OFFICE (CTTSO)** 

**BRIEF TO INDUSTRY** 

GRAND BALLROOM F - H

Dr. Edwin Bundy

Program Manager, Improvised Defeat/Explosives Countermeasures, Combating Terrorism Technical Support Office (CTTSO)

INNOVATIVE LONG-RANGE STANDOFF OPTICAL EXPLOSIVES & WMD DETECTION

WHITEFLINT AMPHITHEATER

**Ed Dottery** 

President, Alakai Defense Systems

1:00 - 1:30 pm

#### DTRA COUNTER IMPROVISED THREAT TECHNOLOGIES (RD-TT) UPDATE

GRAND BALLROOM F - H

Lisa Swan

Director, Material Solutions, Joint Improvised-Threat Defeat Organization

# LONG WAVE IR (LWIR) POLARIZATION COMBINED WITH REFLECTIVE BAND CAMERA FOR ENHANCED DETECTION AND IDENTIFICATION OF SURFACE HAZARDS IN CLUTTERED SCENES

WHITEFLINT AMPHITHEATER

Dr. Francis Pantuso

Research Advisor, U.S. Army Futures Command NVESD

#### **BRAIN HEALTH WORKSHOP: MEDICAL PANEL**

BROOKSIDE

#### Stephen Phillips

Senior Professional Staff, Johns Hopkins University Applied Physics Lab (JHU APL)

#### CDR (Dr.) Josh Duckworth, USN

Deputy Director of Research and Technology, Uniformed Services University of the Health Sciences (USUHS) Invited

#### Dr. Joseph Long

Chief, Blast-Induced Neurotrauma Branch, Walter Reed Army Institute of Research Invited

#### Dr John Meyers

Program Director, ANAM, Office of the Surgeon General of the Army *Invited* 

#### Dr. Matthew Reinhart

Director, War Related Illness and Injury Study Center, U.S. Department of Veterans' Affairs *Invited* 

1:30 - 2:00 pm

#### **NETWORKING BREAK**



#### 2:00 - 2:30 pm

# DEPARTMENT OF HOMELAND SECURITY OFFICE OF BOMBING PREVENTION UPDATE

GRAND BALLROOM F-H

#### William Byrd

Deputy Chief, Office for Bombing Prevention (OBP) at Cybersecurity and Infrastructure Security Agency

# PRELIMINARY FIELD-TESTING RESULTS OF A COMPACT NEUTRON SOURCE FOR STANDOFF BURIED IED DETECTION

WHITEFLINT AMPHITHEATER

#### Steven Burger

Director, Federal Business Development, Phoenix LLC

#### **BRAIN HEALTH WORKSHOP: MEDICAL PANEL**

BROOKSIDE

#### Stephen Phillips

Senior Professional Staff, Johns Hopkins University Applied Physics Lab (JHU APL)

Moderator

#### CDR (Dr.) Josh Duckworth, USN

Deputy Director of Research and Technology, Uniformed Services University of the Health Sciences (USUHS) Invited

#### Dr. Joseph Long

Chief, Blast-Induced Neurotrauma Branch, Walter Reed Army Institute of Research Invited

#### Dr John Meyers

Program Director, ANAM, Office of the Surgeon General of the Army *Invited* 

#### Dr. Matthew Reinhart

Director, War Related Illness and Injury Study Center, U.S. Department of Veterans' Affairs Invited

2:30 - 3:00 pm

#### **NAVSCOLEOD UPDATE**

GRAND BALLROOM F - H

#### X-RAY TOOLKIT UPDATE

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#### Bryce Eldridge

Senior Member of Technical Staff, Sandia National Laboratories

#### **BRAIN HEALTH WORKSHOP: POLICY PANEL**

**BROOKSIDE** 

#### COL Michael Evans, USA

734 Co-Project Coordinator Ops *Moderator* 

#### RDML Joseph DiGuardo, USN

Director, Counter-Weapons of Mass Destruction-Fusion Center, U.S. Special Operations Command (USSOCOM)

#### Kathy Lee, MS, CRNP, ANP-BC, CNRN

Special Assistant to Deputy Assistant Secretary of Defense for Health Readiness Policy & Oversight (HRP&O) DoD, Health Affairs, Health Readiness Policy & Oversight Invited

#### Paul Scharre

Senior Fellow and Director, Technology and National Security Program, Center for New American Security

#### CAPT Scott Cota, USN

MC, USN-Director of Branch Clinics Naval Medical Center Camp Lejeune, 734 Co-Project Medical Coordinator Invited

#### Dr. Terry Rausch

Acting Assistant Secretary of Defense for Health Readiness and Policy Oversight Invited

3:00 - 3:30 pm

#### **NETWORKING BREAK**



#### 3:30 - 4:00 pm

#### NATO COUNTER-IMPROVISED EXPLOSIVE DEVICE CENTER OF EXCELLENCE

GRAND BALLROOM F - H

Col Stephen Kavanaugh

Deputy Director, NATO Counter IED Centre of Excellence

### PYROSHOCK: COST-EFFECTIVE C-IED DEVICE FOR NEUTRALIZING OPERATING SYSTEMS OF IEDS CONTAINING SENSITIVE EXPLOSIVES

WHITEFLINT AMPHITHEATER

Ronnen Paytan

Director, Business Development, Mistral Inc.

#### BRAIN HEALTH WORKSHOP: POLICY PANEL CONTINUED

**BROOKSIDE** 

COL Michael Evans, USA

734 Co-Project Coordinator Ops

Moderator

#### RDML Joseph DiGuardo, USN

Director, Counter-Weapons of Mass Destruction-Fusion Center, U.S. Special Operations Command (USSOCOM)

#### Kathy Lee, MS, CRNP, ANP-BC, CNRN

Special Assistant to Deputy Assistant Secretary of Defense for Health Readiness Policy & Oversight (HRP&O) DoD, Health Affairs, Health Readiness Policy & Oversight Invited

#### Paul Scharre

Senior Fellow and Director, Technology and National Security Program, Center for New American Security

#### **CAPT Scott Cota, USN**

MC, USN-Director of Branch Clinics Naval Medical Center Camp Lejeune, 734 Co-Project Medical Coordinator Invited

#### Dr. Terry Rausch

Acting Assistant Secretary of Defense for Health Readiness and Policy Oversight Invited

#### 4:00 - 4:30 pm

#### **RAVENS' CHALLENGE UPDATE**

GRAND BALLROOM F-H

John Simpson

Program Manager, Bureau of Alcohol, Tobacco, Firearms and Explosives

# POSSIBLE EFFECTS OF WALL REFLECTIONS ON THE BLAST OVERPRESSURE THREAT TO BOMB TECHNICIANS – MEASUREMENT & ANALYTICAL TOOLS

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Dr. Jean-Philippe Dionne

Director, Research Engineering, Med-Eng

# BRAIN HEALTH WORKSHOP: TRAUMATIC BRAIN INJURY, POST-TRAUMATIC STRESS DISORDER AND SUICIDE PREVENTION

**BROOKSIDE** 

4:30 – 5:00 pm	OSU: MSFS ARSON & EXPLOSIVES GRAND BALLROOM F-H Tom Gersbeck Graduate Faculty/Military Liaison, Arson-Explosives Investigation (AEI) Program, OSU
	HOW THE NIJ BOMB SUIT STANDARD ADDRESSES BLAST EFFECTS & OPERATOR NEEDS WHITEFLINT AMPHITHEATER Dr. Jean-Philippe Dionne
	BRAIN HEALTH WORKSHOP: TRAUMATIC BRAIN INJURY, POST-TRAUMATIC STRESS DISORDER AND SUICIDE PREVENTION BROOKSIDE
5:00 – 6:00 pm	NETWORKING RECEPTION EXHIBIT HALL

# 7:00 am – 5:00 pm REGISTRATION GRAND FOYER 7:00 – 8:00 am NETWORKING BREAKFAST GRAND FOYER 8:00 – 8:15 am ADMIN REMARKS GRAND BALLROOM F - H COL Leo Bradley, USA (Ret) Symposium Chair, NDIA EOD Committee



#### 8:15 - 9:00 am

#### **CONGRESSIONAL PERSPECTIVE PANEL**

GRAND BALLROOM F- H

#### Col Wes Hallman, USAF (Ret)

SVP, Policy, National Defense Industrial Association (NDIA) *Moderator* 

#### John Holcomb

Military Legislative Assistant, Office of Congressman Rick Crawford (AK-1)

#### Maj Daniel Long, USAF

USAF Office of Congressional Liaison

#### Matthew Manning

Military Legislative Assistant, Office of Congressman Jim Panetta (CA-20)

#### **TECHNICAL SOLUTIONS FOR HMA CHALLENGES**

**BROOKSIDE** 

#### William Bagley

Johns Hopkins University Moderator

#### Jerry Guilbert

Chief of Programs, Office of Weapons Removal and Abatement (PM/WRA) U.S. Department of State Invited

#### Rory Logan

Advisor, Strategic Management & IMAS Review Board Secretary, Geneva International Center for Humanitarian Demining Invited

#### LTC Alex Riebl, USA

Office of Rule of Law and Security Institutions, UNMAS Invited

#### Allan Tan

Director of Applied Technology, Golden West Humanitarian Foundation *Invited* 

#### 9:00 am

#### **EXHIBIT HALL OPENS**

GRAND A - E

9:00 – 9:45 am	<b>EOD WARRIOR FOUNDATION LECTURE: LONELINESS</b> GRAND BALLROOM F – H
	Dr. William Lopez, CPE Lead Medical Director, Cigna Behavioral Health
	TOWARDS UNIFICATION OF POLICY IN HMA BROOKSIDE
	Suzanne Fiederlein Associate Director, James Madison University Center for International Stabilization and Recovery Moderator Invited
	Elise Becker Vice President, Operations, Marshall Legacy Institute Invited
	Lewis Rasmussen Director, Corporate Relations Davidand Strategy, Tetra Tech Invited
	Rob Jenkins Deputy Assistant Administrator, Bureau for Democracy, Conflict and Humanitarian Assistance, USAID Invited
	David Hewitson Director, Fenix Insight Ltd. Invited
9:45 – 10:15 am	NETWORKING BREAK EXHIBIT HALL
10:15 – 11:00 am	IMPROVISED EXPLOSIVES DEVICE KEYNOTE GRAND BALLROOM F-H
	Kirk Yeager Chief Explosives Scientist, Federal Bureau of Investigation (FBI)
11:00 – 11:30 am	CBRN CONSORTIUM/OTAS GRAND BALLROOM F - H
	Mike Stebbins Executive Director, Countering Weapons of Mass Destruction Consortium and Medical CBRN Defense Consortium
	UAS DRONE DROP SIGNATURE IDENTIFICATION: DJI PHANTOM 3 STANDARD WHITEFLINT AMPHITHEATER
	Dr. Stephen Pearson Technical Forensic Exploitation Researcher, High Tech Crime Institute Inc.
11:30 – 12:30 pm	NETWORKING LUNCH EXHIBIT HALL
	SILENT AUCTION CLOSES GRAND FOYER



#### 12:30 – 1:30 pm EOD WARRIOR FOUNDATION SUICIDE PREVENTION WORKSHOP

**BROOKSIDE** 

#### Michael Cardash

Former Commander, Israeli National Police Bomb Squad

#### LTG Reynold Hoover, USA (Ret)

Former Deputy Commander, U.S. Northern Command (USNORTHCOM) Invited

#### Dr. William Lopez

Senior Medical Director Behavioral Health, Cigna Invited

#### Dr. Kelly Posner

Founder & Director, Columbia Lighthouse Project, Columbia University Center (CUC) Invited

#### Michael J. Roy, M.D., MPH, FACP, COL USA (Ret)

Director, Division of Military Internal Medicine, Uniformed Services University of the Health Services (USUHS)

#### 12:30 - 1:00 pm

#### UNITED NATIONS MINE ACTION SERVICES (UNMAS) REQUIREMENTS

GRAND BALLROOM F - H

#### LTC Alexander Riebl, USA

IED Threat Mitigation Advisor, UN Mine Action Service Invited

# UNMANNED SYSTEM (UXS) IPT AND ENGINEERING PRECEPTS FOR SAFE AUTONOMY

WHITEFLINT AMPHITHEATER

#### Jeff Fornoff

Weapon System Explosives Safety Review Board (WSESRB) SME for VLS, UxS, DEW, and Ground Weapon Systems

#### 1:00 - 1:30 pm

# EPA UPDATE ON THE USE OF ALTERNATIVES TO OPEN BURN/OPEN DETONATION/BLOW-IN-PLACE

GRAND BALLROOM F - H

#### Kenneth Shuster

Lead Engineer, United States Environmental Protection Agency (USEPA)

# THE HYBRID THERMAL LANCE – A SAFE AND INEXPENSIVE WAY TO DESTROY UXO WITHOUT CAUSING DETONATION

WHITEFLINT AMPHITHEATER

#### Dr. Don Pratt

Professor of Engineering, Messiah College

#### 1:30 - 2:00 pm

#### **NETWORKING BREAK**

#### 2:00 - 4:00 pm

#### **EOD WARRIOR FOUNDATION SUICIDE PREVENTION WORKSHOP PANEL**

**BROOKSIDE** 

#### LTG Reynold Hoover, USA (Ret)

Former Deputy Commander, U.S. Northern Command (USNORTHCOM)

Moderator

Invited

#### Michael Cardash

Former Commander, Israeli National Police Bomb Squad

#### Dr. William Lopez

Senior Medical Director Behavioral Health, Cigna

Invited

#### Dr. Kelly Posner

Founder & Director, Columbia Lighthouse Project, Columbia University Center (CUC)

#### Michael J. Roy, M.D., MPH, FACP, COL USA (Ret)

Director, Division of Military Internal Medicine, Uniformed Services University of the Health Services (USUHS)

Invited

#### 2:00 - 3:00 pm

#### **CWMD PANEL**

**BROOKSIDE** 

#### Warren Baugh

Director Nuclear and DOE Programs, Tetra Tech

Invited

#### Dave Huizenga

Principal Assistant Deputy Administrator for Defense Nuclear Nonproliferation, U.S. Department of Energy, National

**Nuclear Safety Administration** 

Invited

#### 2:00 - 2:30 pm

#### **EXPLOSIVES SAFETY UPDATE**

GRAND BALLROOM F - H

#### MARINE CORPS WARFIGHTING LAB UPDATE: AUTONOMOUS MINE **& IED CLEARANCE**

WHITEFLINT AMPHITHEATRE

#### Robert Bamberger

Principal Professional Staff, Intelligent Systems Group, Johns Hopkins University Applied Physics Lab (JHUAPL) Invited

#### 2:30 - 3:00 pm

#### **KEYNOTE ADDRESS: JOINT EOD UPDATE**

GRAND BALLROOM F - H

#### RDML Eric Ver Hage, USN

Commander, NAVSEA Warfare Centers

Invited

#### **EXPLOSION CHAMBER FOR CONFINEMENT OF AMMUNITION DESTRUCTION: DESIGN RULES AND APPLICATIONS**

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#### Jerome Mespoulet

Shock-Physics Expert, Thiot Ingenierie



3:00 - 3:30 pm

**NETWORKING BREAK** 

**EXHIBIT HALL** 

SILENT AUCTION PICKUP

**GRAND FOYER** 

3:30 pm

**EXHIBIT HALL CLOSES** 

GRAND A - E

3:30 - 4:00 pm

INTERNATIONAL 1: EOD CENTER OF EXCELLENCE

GRAND BALLROOM F - H

Lt Col Ryszard Waclawik, POL ARMY

Head of Technology Development Department, NATO EOD COE

ADVANCES IN ORDNANCE DATA CLASSIFICATION, STORAGE AND TRANSMITTAL

WHITEFLINT AMPHITHEATER

Allen Tan

Director of Applied Technology, Golden West Humanitarian Foundation

4:00 - 4:30 pm

INTERNATIONAL VIEWPOINT

GRAND BALLROOM F - H

Colonel Gareth Bex OBE

UK MOD Senior Explosives Engineer

NSWC INDIAN HEAD EOD TECHNOLOGY DIVISION: EOD DEPARTMENT CURRENT PROJECTS

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Amanda Vehslage

Department Head, Explosive Ordnance Disposal Department, Naval Surface Warfare Center Indian Head

4:30 - 5:00 pm

GENEVA INTERNATIONAL CENTRE FOR HUMANITARIAN DEMINING BRIEF

GRAND BALLROOM F - H

Rory Logan

Advisor, Strategic Management & IMAS Review Board Secretary, Geneva International Centre for Humanitarian Demining (GICHD)

WHAT WOULD A JOINT IED ANALYSIS TOOL LOOK LIKE TODAY IN A BIG DATA WORLD?

WHITEFLINT AMPHITHEATER

Stuart Booth

Lead Engineer, Cogility Software Corporation

THURSDAY,	AUGUST 8
7:00 – 12:00 pm	REGISTRATION OPEN GRAND FOYER
7:00 – 8:00 am	NETWORKING BREAKFAST GRAND FOYER
8:00 – 8:15 am	ADMINISTRATIVE REMARKS GRAND BALLROOM F - H COL Leo Bradley Chair, Global Explosives Ordnance Disposal Symposium, NDIA
8:15 – 9:00 am	ARMY REQUIREMENTS PANEL GRAND BALLROOM F - H BG Heidi Hoyle, USA 41st Chief of Ordnance and Commandant of U.S. Army Ordnance School Moderator  MAJ James Alfaro, USA EOD Capability Development, Capability Development Integration Directorate (CDID), U.S. Army  Louis Analure Product Manager, Unmanned Ground Vehicles, PM Force Protection invited  MAJ Austin Banford, USAF Program Executive Officer, USAF invited  COL Jonathan Slater, USA Program Manage, Close Combat Systems, U.S. Army invited
9:00 – 9:45 am	USMC REQUIREMENTS PANEL GRAND BALLROOM F - H  Maj Jason Perry, USMC EOD Advocacy Section Head (LPE-2) Moderator  Richard Daley SYSCOM Invited  Maj Joe David, USMC EOD Capabilities Integration Officer, CD&I/MCCDC Invited  Maj Joe Hockett, USMC OIC, MarDet NSWC IH EOD Tech Division Invited



9:45 – 10:15 am	NETWORKING BREAK GRAND FOYER
10:15 – 11:00 am	NAVY REQUIREMENTS PANEL GRAND BALLROOM F - H RDML Brian Brakke, USN Commander Navy Expeditionary Combat Command invited  CAPT Brad Andros, USN Branch Head, Expeditionary Combat Branch (OPNAV N957) Invited  LCDR Deward (Luc) Cummings, USN OIC, Navy EOD Fleet Liaison Unit (NAVEODFLTLAU) invited  CAPT Scott H. Kraft, USN Commanding Officer, NSWC Indian Head EOD Technology Division invited
11:00 – 11:45 am	USAF REQUIREMENTS PANEL GRAND BALLROOM F - H COL Laurie Richter, USAF Chief of Staff, 12TH Air Force (AFSOUTH) Invited  Lt Col Miroslav Karamarinov, USAF Invited  Dr. John Olive Invited  Maj Nicolas Pulire, USAF EOD Program Director, U.S. Air Force  Brian Skibba invited
11:45 pm	CONFERENCE ADJOURNS GRAND BALLROOM F - H

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.