NDIR



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May 9-11, 2017 Westin Cincinnati, Cincinnati, OH

Schedule

TUESDAY, MAY 9TH

3:00 PM - 4:30 PM Table Top Display Set Up - *Gibson Foyer*

4:30 PM – 6:00 PM Registration and Opening Reception – Gibson Foyer

WEDNESDAY, MAY 10TH

7:00 AM - 8:00 AM	Registration and Continental Breakfast - <i>Gibson Foyer</i> Session I - Welcome, Administrative & Keynote Address - <i>Presidential Ballroom I-II</i>
8:00 AM - 8:05 AM	Introduction & Administrative Announcements Mr. Bob Hertlein, L-3 Fuzing and Ordnance Systems, NDIA Fuze Committee Chair
8:05 AM - 8:15 AM	NDIA Opening Remarks Mr. Frank Michael, <i>SVP, Program Development</i> , National Defense Industrial Association
8:15 AM - 8:45 AM	Keynote Address Dr. Yvette Weber, <i>Air Force Deputy Program Executive Officer for Weapons</i> , Armament Directorate
	Session II - U.S. Government Science, Technology & Acquisition Session Chair: Mr. Ed Cooper Session Assistant: Mr. Bob Hertlein
8:45 AM - 9:10 AM	Army S&T Strategy Mr. Thomas Crowley, <i>Chief, Munitions Fuzing Branch</i> , US Army ARDEC Mr. Rick Kulbacki, <i>Electronics Engineer,</i> US Army RDECOM AMRDEC
9:10 AM - 9:30 AM	Navy S&T Strategy Dr. Michael Deeds, <i>Fuze and Initiation Systems Branch Manager,</i> NSWC IHEODTD
9:30 AM - 10:00 AM	Air Force S&T Strategy Mr. George Jolly, <i>Technical Advisor</i> , Air Force Research Laboratory
10:00 AM - 10:30 AM	Morning Break - Gibson Foyer
10:30 AM - 11:00 AM	OSD Perspective/Fuze IPT Mr. Lawrence Fan, <i>JFTP Manager</i> , NSWC IHEODTD
11:00 AM - 11:30 AM	Joint Fuze Technology Program (JFTP) Mr. Lawrence Fan, <i>JFTP Manager</i> , NSWC IHEODTD
11:30 AM - 11:50 AM	International Collaboration in Fuze R&D: Opportunities and Perspectives Dr. Jason Foley, <i>International Program Officer</i> , European Office of Aerospace R&D
11:50 AM - 12:00 PM	Harry Diamond Fuzing Award Ceremony
12:00 PM - 1:00 PM	Lunch - Fountain Room

Please note that the Closed Sessions are for U.S. Citizens Only. You must check-in at the Security Certification table to obtain the daily colored wrist band.

1:00 PM - 3:00 PM

Concurrent Sessions:

SESSION		1:00 PM	1:20 PM	1:40 PM	2:00 PM	2:20 PM	2:40 PM
SESSION IIIA Session Chairs: Nassir Alaboud & Ed Cooper	OPEN SESSION	19238 - Digital Device Architecture and the Safe Use of Flash Devices in Munitions	19239 - Environmental Effects on Data Retention in Flash Cells	19279 - Challenges of using Logic Devices in the Implementation of Safety Features for Fuzing Systems	19273 - Use of Multi-core Processor Technology in Fuzing Systems	20000 - Precision Munition and Fuze Initiatives	19340 - Conventional Fuze Improvements
		Mr. Richard Katz, NASA	Mr. Richard Katz, NASA	Mr. Stefan Ebenhoech, Fraunhofer Ernst Mach Inst.	Mr. Jeffrey Fornoff, US Army ARDEC	Army, Guided Precision Munitions and Mortar Systems	Army ARDEC
SSION IIIB sion Chairs: nas Harward oug Harms	ED SESSION	19379 - UK Miniaturised, Hard Target Fuze Research	19376 - Dual Mode Lidar/Radar TDD TRL5 UK Technology Demonstration Program	19196 - Virtically Integrating Switching Technology Progress & Test Results	19363 - Joint Fuze Technology's Next Generation Proximity Sensors	19231 - High Reliability DPICM Replacement (HRDR)	19322 - Stacked MOSFET/IGBT Pulse Discharge Switch
SES Sess Thom & Dc	CLOS	Mr. Laurie Turner, Thales	Mr. Gary Buzzard, Thales	Mr. Brad Hanna, NSWC Dahlgren	Mr. Evan Young, US Army ARDEC	Mr. Kevin Cochran, NSWC Indian Head	Mr. Paul Anderson, NAWCWD China Lake

3:00 PM - 3:20 PM Afternoon Break - Gibson Foyer

3:20 PM - 5:20 PM Concurrent Sessions:

SESSION		3:20 PM	3:40 PM	4:00 PM	4:20 PM	4:40 PM	5:00 PM
SESSION IIIA Session Chairs: Vassir Alaboud & Ed Cooper	DPEN SESSION	19380 - New Modular Integrated Electronic Safe & Arm Device Development for a US Army Anti-Armour Weapon	19287 - Next Generation 40mm IG Fuzes	19374 - New Lidar/ Magnetic TDD Development for a US Army Anti Armour Weapon	19368 - Shock Testing of 3D Printed Multi- material Circuits	19191 - Influence of the Embbeded Position for Damages and Reactive Threshold Induced by Concrete Penetration	
2		Mr. Laurie Turner, Thales	Mr. Florian Kunz, Junghans Defence	Mr. Gary Buzzard, Thales	Dr. Amanda Schrand, AFRL	Mr. Alexandre Lefrancois, Centre de Gramat	
ESSION IIIB ssion Chairs: mas Harward & Doug Harms	SED SESSION	19202 - DPICM-XL High Reliability Fuzing	19311 - Advance Multi- Purpose (AMP) Tank Fuzing Solution	19224 - Advancements in Common ESADs	19318 - Proposed Fuze Safety Qualification Procedures for Distributed Embedded Fuzing Systems	19303 - Mechanical Testing of Embedded Fuze Designs	19266 - Imaging Fuze Experimentation for Weapon Terminal Burstpoint Control
Se Se Thor D	CLO	Mr. Craig Doremus, US Army ARDEC	Mr. James Ring, Orbital ATK	Mr. Joe Carda, Orbital ATK	Dr. Janet Wolfson, AFRL	Mr. Curtis McKinion, AFRL	Dr. Matthew Burfeindt, AFRL

5:20 PM 5:30 PM - 7:00 PM Adjourn

:00 PM Grand Reception - Fountain Room

THURSDAY, MAY 11TH

7:00 AM - 8:00 AMRegistration and Continental Breakfast - Gibson Foyer8:00 AM - 12:00 PMConcurrent Sessions:

SESSION		8:00 AM	8:20 AM	8:40 AM	9:00 AM	9:20 AM	9:40 AM
SION IVA on Chairs: Streetz & Etheridge	SESSION	19459 - ESAD Design for Modular Missile Technology	19300 - Modern Fuze Developments & Concepts	19278 - Spectrum of Modern Fuze Batteries	19205 - The Power of the Fuze	19335 - Test Bench for Activatable Batteries	
SES Sessi Roy (Mark	OPEN	Mr. Wayne Eads, Dynetics Inc	Mr. Robert Huettner, Rheinmetall Defence	Mr. Matthias Franz, Diehl & Eagle-Picher	Mr. Harald Wich, Diehl & Eagle-Picher	Mr. Sebastian Hess, EMI Fraunhofer	
SSION IVB sion Chairs: c Roach & on Shutt	ED SESSION	19337 - Low-Cost, Low-Energy EFIs Using Commercial Materials and Processes	19347 - Hard Target Detonator Research Using Binderized RSI-007 and Alternate Microchip	19354 - Computational Modeling of Exploding Foil Initiators (EFIs)	19312 - Hardened Selectable Multipoint Fuzing	19305 - Using Modeled Impact Response of 3-D Printed Materials for High-G Survivability	19320 - Advanced Analysis Techniques for the Implementation of Flash Devices In Safety- Critica Applications
SES Sess Eric Do	CLOS	Mr. Michael Ward, Electronics Development Corporation	Mr. Emmanuel Morales, Reynolds Systems	Mr. Ed Wild, AFRL	Mr. Michael Connolly, US Army RDECOM AMRDEC	Mr. Ezra Chen, NSWC Indian Head	Mr. David Flowers, Defense Microelectronics Activity

Schedule

10:00 AM - 10:20 Morning Break - Gibson Foyer

SESSION		10:20 AM	10:40 AM	11:00 AM	11:20 AM	11:40 AM
SESSION IVA Session Chairs: Roy Streetz & Mark Etheridge	DPEN SESSION	19359 - Dynamic Initiator Imaging at the Advanced Photon Source: Understanding the Early Stages of Initiator Function and Subsequent Explosive Interactions	19502 - Development of Environmentally Benign Pyrotechnic Delays	19284 - Insensitive Electric Priming And Fusing Ignition Method Using Aluminum Nitride/Tungsten Trace Heaters	19252 - DBX-1 - Green Primary Explosive Related Efforts	
0-2)	Dr. Nate Sanchez, Los Alamos National Laboratories	Dr. Jay Poret, US Army RDECOM-ARDEC	Mr. Howard Kent, Armor Development Group, LLC	Mr. Steve Marino, Action Manufacturing Company	
ession IVB ssion Chairs: ic Roach & Jon Shutt	SED SESSION	19246 - Precision Height-of- Burst Proximity Sensor Field Test Results	19228 - Dynamic Target Model Simulation Enhancements for Advanced Fuze Processor Development	19267 - Fast Synthetic Scene Generation for Fuze Sensor Development	19259 - FMU-160A/B Proximity Fuze Mr. Keith Amadio/	19314 - Wireless Power Transmission for Remote Fuzing Applications
SE Ses ET	CLO(Ms. Amanda Skuza, L-3 Mustang	Mr. Charles H Overman IV, University of Florida	Dr. Matthew Burfeindt, AFRL	Mr. Scott Colegrove, US Army ARDEC	Mr. Thomas Hartmann, Sandia National Laboratories

12:00 PM - 1:00 PMLunch - Fountain Room1:00 PM - 5:20 PMConcurrent Sessions:

SESSION		1:00 PM	1:20 PM	1:40 PM	2:00 PM	2:20 PM	2:40 PM
SESSION VA Session Chairs: Bob Hertlein & Byron Lee	OPEN SESSION	19317 - Fuze Modeling Grand Challenge: Computational Comparisons Round 3	19206 - Higher-Order Finite-Element Analysis for Fuzes Subjected to High-Frequency Environments	19280 - Explicit Dynamics based System Simulation of Hardened Fuzing Systems	19308 - Modeling and Simulation of a High Fidelity Electronics Assembly Responding to Drop Test	19501 - Integration of Fire Set Structures using Additive Manufacturing	19315 - DoD MEMS Fuze Explosive Train Evaluation & Enhancement
		Dr. Janet Wolfson, AFRL	Dr. Stephen Beissel, Southwest Research Institute	Dr. Raphael Gutser, TDW GmbH	Mr. Miroslav Tesla, US Army ARDEC	Mr. Daniel Pitts, US Army AMRDEC	Mr. Taylor Young, NSWC Indian Head
ESSION VB ssion Chairs: e Hornberger & ank Fairchild	SED SESSION	19321 - Energy Harvesting and Event Detection for Electronic Safe Arm Fuzing (ESAF) in Gravity Dropped Weapons	19203 - On-Board Power Generation for a 66mm Shoulder Fired System	19281 - Testing Philosophy for Distributed Fuzing Applications	19227 - Fuze Setting Technologies for Rockets & Missiles	19328 - Mechanical Survivability of Embedded Fireset in Quasi-Static and Dynamic High-Pressure Environment	19386 - Advanced Optical Fuze Programmer
SI Ses Bruce Fra	CLO	Mr. Paul Anderson, NAWCWD China Lake	Mr. Chris Savarese, Nammo Talley	Mr. Chuck Treu, DOE National Security Campus	Mr. Mark Etheridge, US Army AMRDEC	Lt Cole Piper, AFRL	Mr. Michael Strauss, Creative Microsystems

3:00 PM - 3:20 PM Afternoon Break - Gibson Foyer

SESSION		3:20 PM	3:40 PM	4:00 PM	4:20 PM	4:40 PM	5:00 PM
SESSION VA Session Chairs: Bob Hertlein & Byron Lee	OPEN SESSION	19390 - Wireless Data Recording Mr. Perry Salyers, L-3 FOS	19307 - Fatigue and High Strain Rate Behavior of SAC305 Solder Dr. Vasant Joshi, NSWC Indian Head				
SESSION VB Session Chairs: Bruce Hornberger & Frank Fairchild	CLOSED SESSION	19352 - Embedded Precision Initiation for Next-generation Engagements (PINE) Fireset R&D for General Purpose Warhead Applications Mr. John Bailey, AFRL	19358 - Developing Additive Manufacturing Process Parameters for Fuze Applications Ms. Leila Zunino, US Army ARDEC	19245 - Integrated Inertia Switches for Fuzing Applications Dr. Todd Christenson, HT Micro	19346 - Design Challenges and Considerations for Embedded Fuzing Mr. Brent Francis, L-3 FOS	19178 - Down Range Drag Correction for Medium Caliber Munitions Mr. Andrew Surowiec, US Army ARDEC	19371 - Parametric Determination of a Fireset's Ability to Reliably Fire an Exploding Foil Initiated Detonator Dr. Glen Kading, Excelitas Technologies

TABLE TOP DISPLAY INFORMATION

DISPLAYING COMPANIES

Diehl & Eagle Picher GmbH

EnerSys

Excelitas Technologies Corp.

Gowanda Electronics

HT MicroAnalytical, Inc.

Knowles-Novacap

Meggitt Sensing Systems

NASCENTechnology Manufacturing, Inc..

PCB Piezotronics, Inc.

Presidio Components, Inc.

Teledyne e2v

Vanguard Electronics

Workers Explosives Safety Training, Inc. (WEST)

DISPLAY HOURS

TUESDAY, MAY 9, 20173:00 PM - 4:30 PMTable Display Set-up4:30 PM - 6:00 PMReception in Gibson Foyer

WEDNESDAY, MAY 10, 2017 7:00 AM - 8:00 AM Continental Breakfast 10:00 AM - 10:30 AM Morning Break - *Gibson Foyer* 3:00 PM - 3:20 PM Afternoon Break - *Gibson Foyer*

THURSDAY, MAY 11, 2017

7:00 AM - 8:00 AM Continental Breakfast
10:00 AM - 10:20 AM Morning Break - Gibson Foyer
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Attendee Roster as of 5-1-2017

Awad Aalnuaimi UAE Armed Forces

John Aasen Kongsberg Defence Systems

Abdulnassir Alaboud Lockheed Martin Missiles and Fire Control

Karen Amabile U.S. Army ARDEC

Keith Amadio US Army ARDEC

Hans Petter Andersson Kongsberg Defence Systems

Thomas Yong Lim Ang Advanced Material Engineering Pte Ltd

Thomas Anthony EnerSys

Tabitha Apple Naval Surface Warfare Center Dahlgren

Carmelo Aresco Kaman Precision Products

Marius Bakken Kongsberg Defence Systems

Antonio Barreiro SFAE-AMO-CAS

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Carsten Becker JUNGHANS Defence

Elizabeth Becker Fourth Factor Engineering, LLC

Stephen Beissel Southwest Research Institute

Douglas Benner Excelitas Technologies

Steven Benulis EnerSys

Anne Benz Sandia National Laboratories

Cagin Bingol TUBITAK SAGE

Greg Bischer Department of the Army

William Black Lockheed Martin Missiles and Fire Control

T. Gaynor Blake Hanley Industries, Inc.

Francis Blodgett Alinabal, Inc.

Timothy Bonbrake L3 Fuzing & Ordnance Systems

Carl Boss Garrity Tool Company, Inc.

Ted Bucher Saab Bofors Test Center AB

Chris Bulian AMTEC Corporation Matthew Burfeindt Air Force Research Laboratory

Gary Buzzard Thales Missile Electronics

Joseph Carda Orbital ATK

Michael Carlsson Saab Bofors Dynamics AB

Jose Carpintero NSWC IHD Det. Picatinny

Joseph Carvalho Pacific Scientific

Gökmen CENGİZ ASELSAN A.S.

Hung-Sheng Chern L3 Mustang Technology

Todd Christenson HT MicroAnalytical, Inc.

Charles Clark Defence Science and Technology Laboratory (DSTL)

Jonathon Clark U.S. Army Aviation and Missile Research, Development and Engineering Center

Olivier Clesca Thales Nederland BV

Norman Coker AFLCMC/EBDZ

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Raymond Colon PM Combat Ammunition Systems

Michael Connolly U.S. Army AMRDEC

Edward Cooper L3 Fuzing & Ordnance Systems

Thomas Crowley RDECOM-ARDEC

Daniel Czaja HT MicroAnalytical, Inc.

Chris Davis TX Sales, Inc.

Ian Davis Teledyne e2V

Michael Deeds Naval Surface Warfare Center, Indian Head Explosives Ordnance Disposal Technology Division

John Deep Air Force Research Laboratory

Ron Deermer Worker Explosives Safety Training, Inc. (WEST)

Andrew DesJardins R & R Trucking Co.

Christopher DeWitt Kaman Precision Products

Craig Doremus ARMY Fuze Division **Bryan Driskell** L3 Fuzing & Ordnance Systems

Derek Duckworth L3 Fuzing & Ordnance Systems

Lucas Dudley NASCENTechnology, Inc.

Barry Dutt PM-CAS

Wayne Eads Dynetics, Inc.

Stefan Ebenhoech Fraunhofer Ernst-Mach-Institut (EMI)

Matthew Eckel AMTEC Corporation

Arie Elbert

Mark Etheridge U.S. Army AMRDEC

William Evelyn Day & Zimmermann, Inc.

Michael Faber Rheinmetall Zaugg AG

Lawrence Fan Naval Surface Warfare Center, Indian Head Explosives Ordnance Disposal Technology Division

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Dave Fine Orbital ATK

Jason Foley EOARD (European Office of Aerospace R&D)

Jeffrey Fornoff US Army ARDEC

Brent Francis L3 Fuzing & Ordnance Systems

Matthias Franz Diehl & Eagle Picher GmbH

Danny Frew Dynamic Systems and Research

John Gautz Electronics Development Corp.

Stewart Genberg Armament Research, Development, and Engineering Center

David Geremia Orbital ATK

Whitney Gideon Excelitas Technologies

Cemil Gokce Roketsan Missile Industries, Inc.

Bryan Gresock Garrity Tool Company, Inc.

Pascal Guenot Nammo MTH SA

Ozdemir Gumusay ASELSAN A.S.

Raphael Gutser TDW GmbH

FUZE CONFERENCE

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Thomas Hartmann Sandia National Laboratories

Thomas Harward Raytheon Company

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Danny Hayles Booz Allen Hamilton

Milton Henderson U.S. Army AMRDEC

Amy Herrmann-Spears 308th Armament Systems Wing

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Sebastian Hess Fraunhofer Institut EMI

Michael Heywood NSWC Corona

David Hoelscher Lockheed Martin Corporation

Tony Holm Saab Bofors Dynamics AB

Jared Holtman Ensign-Bickford Aerospace & Defense

Laurent Hreczynski MECAR SA

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Richard Hunter L3 Fuzing & Ordnance Systems

Chris Jackson General Dynamics Corporation

Jang Jin-Wook Hanwha Corporation

Christian Johnsen Nammo Raufoss AS

Robert Johnson Electronics Development Corp.

George Jolly Air Force Research Laboratory

Vasant Joshi NSWCIHEODTD

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Dana Kaplinski Kaman Precision Products

Richard Katz NASA

Howard Kent Armor Development Group LLC

Rita Kerrigan L3 Fuzing & Ordnance Systems

Dang-Oh Kim Poongsan Defense R&D Institute

kenneth king Ensign-Bickford Aerospace & Defense

James Kinlaw Treble One Aerospace Consulting

Jason Kipp L3 Fuzing & Ordnance Systems

Ryan Klenke Kinetic Vision

Werner Knubel RUAG Ammotec

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George Kuchta Accurate Energetic Systems, LLC

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Tony Larouco Meggitt Sensing Systems

Brian Launer Orbital ATK

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Byron Lee Orbital ATK

Jeffrey Lee Orbital ATK

Alexandre Lefrancois Commissariat à l'Energie Atomique

Jim Lemister Pacific Scientific Energetic Materials

Andrew Lewis Defence Ordnance Safety Group

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Donald Limbaugh U.S. Army AMRDEC

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Steve Marino Action Manufacturing Company

Mark Matthews EnerSys

Stanley Mazur Ensign-Bickford Aerospace & Defense

Michael McAlister 46th Test Wing

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Robert Metz PCB Piezotronics

James Mickolajczyk NSWC IHD Det. Picatinny

Francis Milbower L3 Fuzing & Ordnance Systems

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Mark Mishler L3 Fuzing & Ordnance Systems

Anthony Mittas Dynamic Systems and Research

Emmanuel Morales Reynolds Systems, Inc.

Michael Naim Statek Corporation

Christopher Nance Reynolds Systems, Inc.

Attendee Roster as of 5-1-2017

Bob Nelson Novacap, Inc.

Barry Neyer Excelitas Technologies

Thomas Nickolin Oscar Nilsson

Saab Bofors Dynamics AB

Thomas Noble General Dynamics OTS

Peter Noe Rheinmetall AG

Arthur Norton JUNGHANS DEFENCE GmbH

Ohad Nuriel Rafael Advanced Defense Systems Ltd.

Bob Nyulassy Knowles

Patrick O'Malley Sandia National Laboratories

David Ort PCB Piezotronics

Larry Ostendorf Pacific Scientific Energetic Materials

Maurice Oud Ministry of Defence

Charles Overman University of Florida/Electronic Communications Lab

Ozgur Ozfidan ARTRON

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Max Perrin JUNGHANS Defence

Doug Phillips Presidio Components, Inc.

W. Stephen Piper Piper Pacific International

Faraidoon Pundole Hunting Energy Services, Inc.

Shai Rahimi Rafael Advanced Defense Systems Ltd.

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John Rascon L3 Fuzing & Ordnance Systems

Seth Raymond NSWC DD

Robert Renz Kaman Precision Products

Zachary Reser Excelitas Technologies

Richard Reynolds Reynolds Systems, Inc.

Cynthia Riley Orbital ATK James Ring Orbital ATK

Eric Roach Lockheed Martin Missiles and Fire Control

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Stan Ross Teledyne Energetics

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Tanya Santers Orbital ATK

Chris Savarese Nammo Talley Inc.

John Schiavone PCB Piezotronics

Stephen Schmidt L3 Fuzing & Ordnance Systems

Daryl Schofield NASCENTechnology, Inc.

Henry Schoonhoven MoD/Directorate of Logistic Agencies/Weapons & Munitions Test Department

Amanda Schrand Air Force Research Laboratory

Christopher Schuyler Excelitas Technologies

James Sharp Naval Surface Warfare Center Dahlgren

Donald Shutt Orbital ATK

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Roger Sitara Government, Picatinny Arsenal

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Vito Spinelli Kaman Precision Products

Danny Stahl Hanley Industries, Inc.

Wayne Steege Orbital ATK

Alan Stillwell Meggitt

Arnaud Stock MECAR SA

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Matthew Stubbs Dynetics, Inc.

Andrew Surowiec U.S. Army ARDEC

Miroslav Tesla U.S. Army ARDEC

Keith Thomas Los Alamos National Laboratory

Pamela Tran Action Manufacturing Company

Charles Treu DoE/NNSA National Secure Manufacturing Center

Michael Triviski BAE Systems Platforms

Laurie Turner Thales Missile Electronics

Joe Uzarski PCB Piezotronics

Raymond van Dijk TNO

Robert Venino Statek Corporation

Arno Von der Fecht TDW GmbH

Brent Vorst Kinetic Vision

Michael Ward Electronics Development Corp.

Chad Welch L3 Fuzing & Ordnance Systems

Justin Welling AFLCMC/EBDZ

Harald Wich Diehl & Eagle Picher GmbH

Jeffrey Winebrenner Orbital ATK

Marc Worthington L3 Fuzing & Ordnance Systems

Murat Yazici Roketsan Missile Industries, Inc.

Mehmet Yildirim Artron

Evan Young US ARMY - RDECOM ARDEC Fuze Division

Leila Zunino US Army ARDEC

Notes	



For over 60 years, L3 Fuzing & Ordnance Systems (L3 FOS) has been a leader in the fuzing industry, specializing in the design, development, testing, and manufacture of Electronic Safety and Arming Fuzes, Ignition Safety Devices, Flight Termination Safe & Arm devices, and Proximity Sensors. Our products are utilized in Mortars, Artillery, Air-Dropped Bombs, Rockets, and Missiles.

Fuzing & Ordnance Systems Located near Cincinnati, Ohio, L3 FOS' modern facility was specifically designed for the manufacture of fuzing and ordnance systems for the Department of Defense (DOD) and

Missile Defense Agency (MDA). All activities, including design, engineering, production and quality, are performed at this single location, enabling process efficiencies and ensuring adherence to programmatic and technical standards. L3 FOS is dedicated to continuous improvement and operates a quality management system that is certified to AS9100C and ISO 9001:2008. Our highly flexible manufacturing operations can accommodate a variety of fuzing products, with run rates of 40,000 units per month down to individual production units for development efforts. Additionally, L3 FOS has a complete, on-site test lab to perform all required environmental test procedures.

L3 FOS also operates an advanced Automated Electronics Assembly area that produces high-reliability Flex Circuit Assemblies and Circuit Card Assemblies on modern Surface Mount Technology (SMT) equipment. This capability is onsite to control and support the most stringent quality standards for the production of military standard, safety-critical components.

At L3 FOS, customer focus is a key element of who we are and how we operate. Our customers are the foundation of our success, so we work to establish long-term relationships and ensure collaboration throughout the entire process, from concept through sustainment.

L3 FOS is committed to supporting the warfighter by providing highly reliable fuzes, safety and arming devices, proximity sensors and related products. We will continue to innovate and develop unique solutions by leveraging our valued workforce. To learn more, please visit our website www.L3T.com/FOS or call 513-943-2000.



Orbital ATK's Missile Products Division is an industry-leading developer and manufacturer of defense and aerospace components and systems. Among our extensive portfolio of highly engineered products are some of the most technologically advanced intelligent fuzes available today, including the FMU 167/B Hard Target Void Sensing Fuze and the FMU-139 D/B.

The FMU 167/B, now approved for export, offers unprecedented capability against complex hard and deeply buried targets while the first all-electronic general purpose bomb fuze, the FMU-139D/B, improves munitions' functionality with an easy, drop-in replacement to the legacy FMU-139C/B.

For more information about these and other fuzes offered by Orbital ATK, visit us at www.OrbitalATK.com and then click on Defense Systems, Missile Products.



Founded in 1980, Presidio Components is a US manufacturer specializing in high reliability pulse energy capacitors for Exploding Foil Initiator (EFI) detonators with single or multiple pulse firing operations. Available for high temperature applications (250°C+), Presidio's EFI capacitors are rated 10V to 10KVA in multiple dielectrics (X7R, N2T, NPO). As an added safety feature, capacitors can be ordered with bleed resistors that operate up to 250°C. Lead frames are available for board flex compliance, as well as stacked capacitors

for increased energy density. Energy output is designed to customer specifications.

In addition to defense, Presidio supplies ceramic capacitors used in other high quality commercial, military, and space applications. Presidio's power products include low inductance chips SMD (0201 to 2225), high reliability SMPS stacks (180°C µF+), and high voltage radial leads (6000V+).

Presidio's RF Power and RF /Microwave product group features Ultra-Porcelain™ capacitors with ultra-low ESR and ultra-high Q, broadband DC blocking capacitors, as well as the smallest wire-bondable single layer and broadband bypass capacitors available. All popular case sizes are available, in both RoHS and non-RoHS versions.

Presidio is qualified to most MIL specs including the highest established reliability rating of 'S' Level for MIL-PRF-55681, and two additional space level specifications, MIL-PRF-123 and MIL-PRF-49467 'T' level. Presidio is proud to be the first OPL supplier to MIL-PRF-49467, the high voltage ceramic capacitor specification. All OPL testing per MIL-STD-202 is done on site in Presidio's DSCC approved test lab. For more information visit Presidio's website at: www.presidiocomponents.com or call (858) 578-9390.

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