

Wednesday Morning

Pg 8 Poster Session

Benjamin Wilson poster listed in Open Session, but will be in the Limited Distribution Session

Joseph Blau poster listed in Open Session, but will be in the Limited Distribution Session

Michael Thomas poster listed in Open Session, but will be in the Limited Distribution Session

Poster Added: Detection of Atmospheric Turbulence using Distributed Optical Fiber Sensors

Mary Machniak, US Naval Academy

Posters Withdrawn:

James Prager, Eagle Harbor Technologies Inc

Timothy Ziemba, Eagle Harbor Technologies, Inc.

Timothy Haugan, U.S. Air Force Research Laboratory

Bonnie Johnson, Naval Postgraduate School

Dario Labrada, University of Missouri - Kansas City

Pg 10 **Counter DE Weapons II** (Open/Limited Distribution) Thayer Hall (601), Room 444

Chairs: *Peter Morrison/Joseph Miragliotta*

0630 **Breakfast and Registration at Thayer Hotel**

0830 **Rapid Detection of High Energy Laser Strikes Using Optical Fiber Sensors (A)**

Brian Jenkins, US Naval Academy

0850 **U.S. National Committee proposed revision to the ISO Laser Damage Standard (A)**

Jonathan Arenberg, Northrop Grumman Space

0910 **Continuous Wave Laser Induced Damage Threshold of AMTIR-1, AMTIR-2 and AMTIR-5 at 1.07 micronS (A)**

John McElhenny, U.S. ARL

0930 **Continuous-wave, Laser-induced Damage Thresholds for Large Beams or Thin Targets (D)**

Keith Slinker, Air Force Research Laboratory

0950 **Break**

1020 **High Damage Threshold Monolithic Microstructure for High Reflectivity at 1 micron (D-EX)**

David Woolf, US Army Research Laboratory

1040 **Defeating Lasers using Passive Electro-Optical Counter Countermeasure Technology (D)**

Mitchell Haeri, Reynard Corporation

1100 **Electro-Optical Vulnerability Assessment Facility Capability Overview (D)**

Bruce Odom, Army Combat Capabilities Development Command (CCDC)

1120 **Session Adjourns and Lunch**

Pg 11 **Atmospheric Propagation II** (Limited Distribution) Thayer Hall (601), Room 144

Chairs: *Dr. Steve Fiorino/Ms. Jaclyn Schmidt*

0630 **Breakfast and Registration at Thayer Hotel**

0830 **Measurements and Analysis of Ship-induced Optical Turbulence on an LPD17-class Ship (D)**

John Cowart, Naval Post Graduate School

0850 **Shipborne Atmospheric Extinction Lidar: Performance, Upgrades, and Future Plans (D-EX)**

David Sonnenfroh, Physical Sciences Inc.

0910 **Inertial Subrange Spectra in the Marine Atmospheric Surface Layer (A)**

Steve Fiorino, AFIT

0930 **Overview of the Deep-turbulence Problem for Beam-control System Design (D)**

Mark Spencer, AFRL/RDLTS

0950 **Break**

1010 **Ground and Elevated Path Turbulence Measurements (D-EX)**

Bo Henderson, Scientic Inc.

1030 **Tethered Meteorological and Atmospheric Characterization (T-MAC) (D)**

Michael Kranz, Kratos Defense

1050 **Preliminary Investigation of Jitter Induced by the Atmosphere on Laser Beam Propagation from an Airborne Platform (A)**

Eric Jumper, University of Notre Dame

1110 **Image sharpening on the 3D intensity in the presence of scintillation**

Matthias Banet, University of Rochester

1130 **Session Adjourns**

Pg 12 **HPM Technologies & Effects II** (Limited Distribution) Bartlett Hall, Kendrick Auditorium

Chair: *TBD*

0630 **Breakfast and Registration at Thayer Hotel**

0830 **Tethered High-power-microwave Recorder and Electronic Attack Target (THREAT) (D)**

Michael Kranz, Kratos Defense

0850 **Full-wave Modeling of Ferrite-based Non-Linear Transmission Lines as High-Powered RF Sources (D-EX)**

Daniel Enderich, Air Force Research Lab

0910 **Validation of the Differential-Mode Optically-Based Current Sensor (D)**

Jeffrey Schleher, American Systems

0930 **Distributed RF for DE in Multi Domain Operations (D)**

Ed Shaffer, CCDC Army Research Lab

0950 **Break**

1020 **RF Quality Sensor for HIJENKS Platform**

Andrew Sandoval, Sandia National Laboratories (D-EX)

1040 **Electromagnetic Pulse Generation from Ultra Short Pulse Laser Induced Plasma (A)**

Michael Ross, Naval Information Warfare Center

1100 **Additive Manufacturing for Multi-Mission Antenna (A)**

Dr. Steven Weiss, ARL

1120 **Session Adjourns**

Pg 13 **Lethality I** (Classified) Mahan Hall (752), Arnold Auditorium

Chairs: *David Lyman/Allen Westenhofer*

0630 **Breakfast and Registration at Thayer Hotel**

0830 **Comparison of Mortar Vulnerability Estimates to Army Field Tests (Secret)**

0850 **IOC of CRUISE Missiles Model of Directed Infrared Countermeasures (DIRCM) Effects in Imaging Anti-Ship Missiles (Secret)**

0910 **Burst Filament Interactions and the Modality of Electronic Devices (Secret-NF)**

0930 **A Novel Use of Lasers for Dazzle Counter-measure Against Hardened Systems (D-EX)**

Laura Vanderhoef, US Army Research Lab

0950 **Break**

- 1020 **Aviation HEL Lethality on Engines (D)**
Jesse Croyle, Radiance Technologies
- 1040 **Analysis of Directed Energy Engagements of UAV Targets using Modeling & Simulation Tools (D)**
Glenn Romanczuk, U.S. Army CCDC AVMC/SMDC
- 1100 **UAV Tailboom Model on Generic Group 1 UAS (D)**
Danny Duffin, Radiance
- 1120 **UAV Categorization & Character-driven Grouping (D)**
Allen Westenhofer, Gundlach Aerospace LLC
- 1140 **Results of the Army Space and Missile Defense Command's High Energy Laser Counter-RAM (Rocket, Artillery, Mortar) Lethality Program (D)**
Jay Willis, MTSI
- 1200 **Protecting Satellites from Inadvertent Laser Effects with Decentralized Deconfliction (C)**
John Dewsnap, CSpOC/SPD Laser Clearinghouse
- 1220 **Session Adjourns**