
**2005 Directed Energy
Test and Evaluation Conference**

**2 - 4 August 2005
Albuquerque, New Mexico**

Tuesday, 2 August

Marriott Pyramid Hotel

- 0700 □ **Registration Desk Opens**
□ **Exhibits Set-up**
- 0800 □ **Special Event: DETEC Industry Day**
□ *Mr. Laury Decker and Dr. Larry McKee*
□ Science Applications International □ □
□ Corporation
- 0800 □ **Short Course I: Introduction to High □**
□ **Energy Laser Systems**
□ *Mr. Denny Boesen*
□ Northrop Grumman IT
- **Short Course II: Introduction to High □**
□ **Power Microwave Systems**
□ *Dr. Robert Huchins*
□ Northrop Grumman
- **Short Course III: Military Utility □ □**
□ **Analysis for DE Systems**
□ *Ms. Linda Lamberson*
□ Air Force Research Laboratory/DED
- 1200 □ **Lunch**
- 1300 □ **Short Course IV: Test and Evaluations □**
□ **of High Energy Laser Systems**
□ *Dr. Larry McKee*
□ Science Applications International □ □
□ Corporation
- **Short Course V: Test and Evaluations □**
□ **of High Power Microwave Systems**
□ *Mr. Jeff Schleher*
□ Science Applications International □ □
□ Corporation
- 1630 □ **Short Courses Adjourn**
- 1700 □ **Exhibitor Reception**

Wednesday Morning, 3 August

Plenary Session

UNCLASSIFIED

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- 0700 □ **Registration Desk Opens**
□ **Exhibits Open**
□ **Continental Breakfast**
□ **Speakers'/Panel Members' Breakfast**
- 0800 □ **Introductions**
□ *Mr. Patrick Cannon* □ □ □ □
□ ITEA Roadrunner Chapter and
□ *Mr. Rick Graber*
□ DEPS
- 0815 □ **Welcome and Opening Remarks**
□ *Col Alison Hill*
□ USAF, Vice Commander, Air Force □ □
□ Operational Test and Evaluation Center
- 0830 □ **Welcome and Opening Remarks**
□ *Lt Col Kirk Kloeppe* □ □ □ □
□ Acting Deputy Director, Air Force □ □
□ Research Laboratory/DE
- 0845 □ **DoD Advanced Systems and □** □
□ **Concepts Perspective on Directed □** □
□ **Energy**
□ *Dr. Theodore Barna*
□ Assistant Deputy Under Secretary of □
□ Defense/NBC Technology, Advanced □
□ Systems and Concepts
- 0930 □ **Break in Exhibit Area**
- 1000 □ **T&E Perspective on Directed Energy**
□ *Mr. Thomas Berard*
□ USA, Deputy to the Commander and □
□ Technical Director, White Sands □ □
□ Missile Range
- 1045 □ **Warfighter Perspective on Directed □**
□ **Energy**
□ *Brigadier General Philip Coker,* □ □
□ USA, Director, Capabilities □ □ □
□ Developments, Futures Center, US □ □
□ Army Training and Doctrine Command
- 1145 □ **Lunch**

Wednesday Afternoon, 3 August

Parallel Session 1

DE Threats

SECRET / US ONLY

Offsite Location

-
- 1315 □ Buses Depart for Classified Session
- 1330 □ Introduction
-
-
- 1345 □ Chinese Directed Energy Weapon □ □
Development
-
-
-
- 1415 □ RF Weapon Threat Overview
-
-
- 1445 □ Break
- 1500 □ Satellite Survivability Module
-
-
- 1530 □ The NAGIRA HPM Source For Use in □
Protection Testing
-
-
-
- 1600 □ Break
- 1615 □ Green Laser vs. 727: Radiometric □ □
Measurements and Instrumentation
-
-
-
- 1715 □ Buses Return to Hotel from Classified Session
- 1800 □ Reception

Wednesday Afternoon, 3 August

Parallel Session 2

Delivering Technology to the Warfighter

FOUO

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Chair: □ *Dennis Fairchild*

- USASMDC
- 1330 □ Introduction
- *Dennis Fairchild*
- USASMDC
- 1345 □ Radio Frequency Directed Energy □ □
Weapon: Foundational Research
- *Noel Montgomery*
- Air Force Research Laboratory/HEDR
- 1415 □ CMOS/Post-CMOS Fabrication Of □ □
On-Chip Schottky Diode Microwave □ □
Pulse Power Detectors
- *J. Melngailis*
- University of Maryland
- 1445 □ Break
- 1500 □ Laser Radiation Characterization □ □
and Monitoring Using the Laser □ □
Event Recorder
- *Craig Schwarze*
- OPTRA, Inc.
- 1530 □ Development of a LIDAR System for □ □
Range Profiles of Turbulence
- *Gary Gimmestad*
- Georgia Tech Research Institute
- 1800 □ Reception

Wednesday Afternoon, 3 August

Parallel Session 3 Technologies for DE T&E

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Chair:□*Paul Holt*

- Air Force Operational Test and □ □
□ Evaluation Center

1300□ **DE T&E S&T Program Overview**

- *Paul Holt*
- Air Force Operational Test and □ □
□ Evaluation Center

1315 □ **High Power Microwave Test Support**

- *Jeff Schleher*
- Science Applications International □ □
□ Corporation

1345 □ **Laser Test Technology/Projects**

- *Jim Griggs*
- Science Applications International □ □
□ Corporation

1435□ **Break**

1445□ **A Hardened Remote Digitizer for HPM□
Test and Evaluation**

- *Benjamin Grady*
- Naval Surface Warfare Center

1515 □ **Microwave Test Diagnostics**

- *Robert Achenbach*
- Titan

1545 □ **Break**

1600□ **Modulated Retro-Target Sensor**

- *Marc Hallada*
- Schafer Corp

1645 □ **Quantum Well Infrared □ □ □
Photodetector**

- *Anthony Blea*
- White Sands Missile Range

1800□ **Reception**

Thursday Morning, 4 August

Plenary Panels

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0700 □ **Registration Desk Opens**

- **Exhibits Open**
- **Continental Breakfast**
- **Speakers'/Panel Members' Breakfast**

0800 □ **Plenary Panel A- Delivering □ □
Directed Energy Weapon Systems**

- Chair: *Tom Hodge*
- Director, High Energy Laser □ □ □
□ Strategic Test Facility

□ **Panel:**

- *-Brian Jonasen*
- USSOCOM, ATL Project Manager
- *-Jagadeesh Pamulapati*
- USA, Chief Technical Officer for □ □
□ Project Manager for Unit of Actions □ □
□ Technologies

0930 □ **Break in Exhibit Area**

1000 □ **Plenary Panel B - Impacts of DE □ □
T&E on Ranges**

- Chair: *Thomas Berard*
- USA, Deputy to the Commander and □ □
□ Technical Director, White Sands □ □
□ Missile Range

□ **Panel:**

- *-William Murphy*
- USN, Range Operations Officer, □ □
□ Pacific Missile Range Facility
- *-Minh Vuong*
- USA, DETEC Project Director, □ □
□ Program Executive Office □ □ □
□ Simulation, Training, and □ □ □
□ Instrumentation
- *-Bob Harriman* (invited), USN, China □
□ Lake Weapons Development Center

1145 □ **Lunch**

1200 □ **Exhibits Tear Down**

Thursday Afternoon, 4 August

Parallel Session 4
Netcentric/Joint Force T&E

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Chair: □ *Tom Ball*

- USN, Test & Evaluation Manager, □ □
- Navy Directed Energy & Electric □ □
- Weapons, PMS 405

1330 □ **Introductions**

- *Tom Ball*
- PMS 405

1345 □ **Advanced Concepts Event II**

- *Rudy Martinez*
- Air Force Research Laboratory/DE

1415 □ **Joint DE Lethality Testbed Concept**

- *Tom Hodge*
- HELSTF

1445 □ **Concept for Distributed T&E for □ □**

- **Development of Tracking/Aim-point □**
- **Maintenance Algorithms**
- *Stan East*
- HELSTF

1515 □ **Relay Mirror**

- *Don Washburn*
- Air Force Research Laboratory/DE

1700 □ **Conference Adjourns**

Thursday Afternoon, 4 August

Parallel Session 5
CONEMPS/CONOPS of DE Weapons

Unclassified

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Chair: ~~Paul McGuire~~ □ □ □ □

- USA, Director, Air and Missile □ □
- Defense Battlelab

1330 □ **Introductions**

- *Paul McGuire*
- Air and Missile Defense Battlelab

1345 □ **Dynamic Kills From Space**

- *John Anderson*
- Eyemirror, LLC.

1415 □ **Concepts for a Compact Chemical □ □**
Laser

- *Dennis Fairchild*
- Space & Missile Defense Command

1445 □ **Break**

1500 □ **Zeus CONOPS**

- *Dennis Fairchild*
- Space & Missile Defense Command

1530 □ **ACC Approach to CONOPS □ □ □**
Development

- *Brian Dickson*
- Air Combat Command

1700 □ **Conference Adjourns**

Thursday Afternoon, 4 August

Parallel Session 6

DE Effects/Bioeffects

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Chair: □ *Semih Kumru*

□ Air Force Research Laboratory/HED

1330 □ Introductions

□ *Semih Kumru*

□ Air Force Research Laboratory/HED

1345 □ Bioeffects Research For Emerging □ □

□ Directed Energy Technologies

□ *Patrick Mason*

□ Air Force Research Laboratory/HEDR

1415 □ Health and Safety Limits for Directed □ □

□ Energy: Impact on Test, Evaluation, □

□ Training, and Deployment

□ *Michael Murphy*

□ Air Force Research Laboratory/HED

1445 □ Break

1500 □ Two-Band Infrared Thermographer □ □ □ □

□ for Standoff Temperature □ □ □ □

□ Measurements

□ *Julia Rentz*

□ OPTRA, Inc.

1530 □ Crowd Behavior And Non-Lethal □ □ □

□ Directed Energy Weapons

□ *Keith White*

□ Air Force Research Laboratory/HEDR

1600 □ The Effect Of The HAVE STAN Laser □ □ □

□ System On Visual Performance: A □ □ □

□ Rifle Aiming Task

□ *Semih Kumru*

□ Air Force Research Laboratory/HEDO

1700 □ Conference Adjourns

Thanks to Our Exhibitors

Ampex Data Systems

Applied Physical Electronics

Atlantic Positioning Systems

DETEC

EMRTC - New Mexico Tech

Fiore Industries, Inc.

Georgia Tech Research Institute

HELSTF

L-3 Brashear

Northrop Grumman

OPTRA, Inc

U.S. Army Big Crow Program

U.S. Army White Sands

Missile Range

Organizing Committee

Conference Co-Chairs

Rick Graber

Pat Cannon

Technical Program Chair

Tom Hodge

Exhibits Chair

Doug Messer

ITEA

Jean Shivar

Registration

Cynnamon Spain

Short Courses

Donna Storment