MONDAY, 31 JULY

1300 DETEC Industry Day, Kokopelli Room

1700 Industry Day Adjourns

TUESDAY, 1 AUGUST

0700 Registration Desk Opens
Exhibits Set-Up in Yucatan Room
Continental Breakfast

0800 Morning Tutorials

Tutorial I - Coronado Room

Introduction to High Energy Laser Systems
Denny Boesen, Northrop Grumman Information Technology

Tutorial II - Tampico Room

Introduction to High Power Microwave Systems (FOUO) Robert Hutchins and Robert Antinone, Northrop Grumman Mission Systems

1200 Lunch (on own)

1300 Afternoon Tutorials

Tutorial III - Coronado Room

Military Utility Analysis for DE Systems(FOUO) Linda Lamberson, Air Force Research Laboratory/DED

Tutorial IV - Cozumel Room

Test and Evaluation of High Energy Laser Systems (FOUO) Larry McKee, Science Applications International Corporation

Tutorial V - Tampico Room

Test and Evaluation of High Power Microwave Systems (FOUO) Jeff Schleher, Science Applications International Corporation

WEDNESDAY, 2 AUGUST

| 0630 | Registration Desk Opens |
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| 0700 | Exhibits Open in Yucatan Room Continental Breakfast |
| 0800 | Plenary Session - Cancun Room |
| 0800 | Welcome and Introductions Conference Co-Chairs: Patrick Cannon, ITEA -and- Rick Graber, DEPS |
| 0815 | Directed Energy Weapons – Will Our T&E Infrastructure Be Ready? John Foulkes, Director, Test Resource Management Center |
| 0900 | Michael Schexnayder, Deputy to the Commander for Research, Development and Acquisition, USASMDC |
| 0945 | Break |
| 1015 | Directed Energy Technology Test and Evaluation Support Kirk Kloeppel, Deputy Director, Air Force Research Laboratory/DE |
| 1100 | The Case for Directed Energy Weapons J. Douglas Beason, Associate Laboratory Director for Threat Reduction, Los Alamos National Laboratory |

1300 Breakout Sessions

1145 Lunch - Outdoor Pavilion

Session 1: DE Effects/Bioeffects (Unclassified & FOUO)

Location: Tampico Room

Chair: Stephanie Miller, Air Force Research Laboratory/HED

Two-Band Infrared Thermographer for Standoff Temperature Measurements (FOUO) Julia Rentz Dupuis, OPTRA, Inc.

The Role of Ray Trace Modeling as a Tool for Test and Evaluation (FOUO) Kalyn Yaws, Air Force Research Laboratory/HED

T&E in Support of Directed Energy Weaponeering Linda Lamberson, Air Force Research Laboratory/DETA

Thermo-Mechanical Analysis of Ground-Based Directed Laser Energy Weapons on Satellites Georgios Mantzouris, Naval Postgraduate School

Application of the Radio Frequency Safety Standard to Directed Energy Weapons Noel Montgomery, Air Force Research Laboratory/HED

Bioeffects of Non-lethal Technologies -State of the Science and a Roadmap Ahead Jimmy Fleming, Air Force Research Laboratory/HED

Session 2: Foreign Technology T&E (Unclassified)

Location: Kokopeli Room

Chair: Kelly McDonald, NAVAIR

The Optical Limiting of Vanadium Oxide Thin Films Under Radiation of Near-IR Laser Beams

Sun Chengwei, Institute of Fluid Physics, China Academy of Engineering Physics

Calculation for Characteristics of UWB Pulse Propagation in Building Using Fourth Order PSTD Algorithm

Ma Hongge, Institute of Applied Electronics, China Academy of Engineering Physics

Thermal Distortion of Optical Mirrors and Window Induced by High-Power Annular Laser Beams

Wang Weiping, Institute of Fluid Physics, China Academy of Engineering Physics

Dominique Serafin, Centre d'études de Gramat, France

Andreas von Mirbach, Diehl BGT Defence GmbH & Co. KG, Germany

Session 3: Modeling and Simulation (Unclassified & FOUO)

Location: Cancun Room

Chair: Pat Cannon, AEgis Technologies

Advanced BRDF Modeling (FOUO) Edwin Pease, Tau Technologies

Laser Range Safety Tool for Target Reflection Hazard Analysis (FOUO) Ken Keppler, Northrop Grumman

Verification, Validation, and Accreditation of the Laser Range Safety Tool (FOUO) Craig Kief, AEgis Technologies

Laser Irradiance Test and Evaluation Tool (FOUO)
Eric Schafer, Science Applications International Corporation

Dynamic Data Fusion Aaron Birenboim, Tau Technologies

1730 Reception

Heavy Hors d'Oeuvres and a Cash Bar in the Exhibit Area

THURSDAY, AUGUST 3

0630 Registration Desk Opens

0700 Exhibits Open in Yucatan Room

Continental Breakfast

0800 Plenary Panels - Cancun Room

Welcome and Introductions

Conference Co-Chairs: Patrick Cannon, ITEA -and- Rick Graber, DEPS

0815 Plenary Panel A:

T&E of Revolutionary Systems - Lessons Learned (Unclassified)

Chair: Marion Williams, Institute for Defense Analyses

Panel: Richard Dunn, Northrop Grumman Analysis Center

Fred Green, MacAulay-Brown, Inc Charles (Pete) Adolph, Consultant

0945 Break

1015 Plenary Panel B:

Ensuring DE T&E Success: Legal, Treaty, Policy and Public Affairs Issues (Unclassified)

Chair: David Karcher, USMC, ADS ACTD Executive Agent

Panel: Joe Rutigliano, Directed Energy Operational Law

Sarah Fullwood, ADS ACTD Public Affairs Officer

Roxanne Constable, Human Effects Center of Excellence, AFRL

- 1145 Lunch Outdoor Pavilion
- 1245 Buses Depart for Classified Sessions (Breakout Session 5)

1300 Breakout Sessions

Session 4: Directed Energy Test Science and Technology Efforts (Unclassified & FOUO)

Location: Tampico Room

Chair: Minh Vuong, PEO STRI

2-D Hyperspectral Imager High Energy Laser Diagnostics Sensor (FOUO)

L. John Otten, Photon Research Associates

Test & Evaluation Adaptive Optics System Design (FOUO)

Mark Galpin, WSMR

Multiple Waveband Temperature Sensor (FOUO) Sumith Bandara, Jet Propulsion Laboratory

Dielectric Electromagnetic Field Probes Richard Forber, IPITEK

Dielectric Antenna Electro-Optical Sensor Bijan Houshmand, UCLA

A Holographic Target Board for Ground Target Irradiance/Fluence Measurement David Roberts, Georgia Tech Research Institute

Session 5: DE Threat Update (SECRET/US Only)

Offsite Location

Radio-Frequency Weapon CONOPS

Naval Laser Weapons

Commercial RF Weapon Assessment Program (Terrorist HPM Assessment Program)

Foreign Nuclear EMP Simulators

Narrowband and Ultra-Wideband Microwave Effect Results on the Tactical Automated Security System

Electromagnetic Environmental Effects (E3) and HPM

Session 6: Delivering DE Technology (Unclassified & FOUO)

Location: Cancun Room

Chair: Dennis Fairchild, USASMDC Technical Center

Ultra Wide Band High Power Microwave Effects Testing with Multiple Sources (FOUO) Paul Hayes, The CEMTACH Group

Conducting Directed Energy Related Testing - T&E Range Challenges Dick Dickson, Tybrin Corporation

Ground Target Irradiance Measurement Capability Program Mike Bertin, DETEC

BRDF, Survivability and Reflectance Tests for the HEL-Ground Target Irradiance Measurement Program Kevin Walter, SARA Inc Funding Directed Energy T&E Improvements and Modernization with Small Business Innovation Research Grants
Brian Mork, Air Force Flight Test Center

Analysis of Thermal Effects Associated with High Energy Radiation for Reducing Scintillation of a Coaxial Beam Ronald Phillips, University of Central Florida

1700 Conference Adjourns