

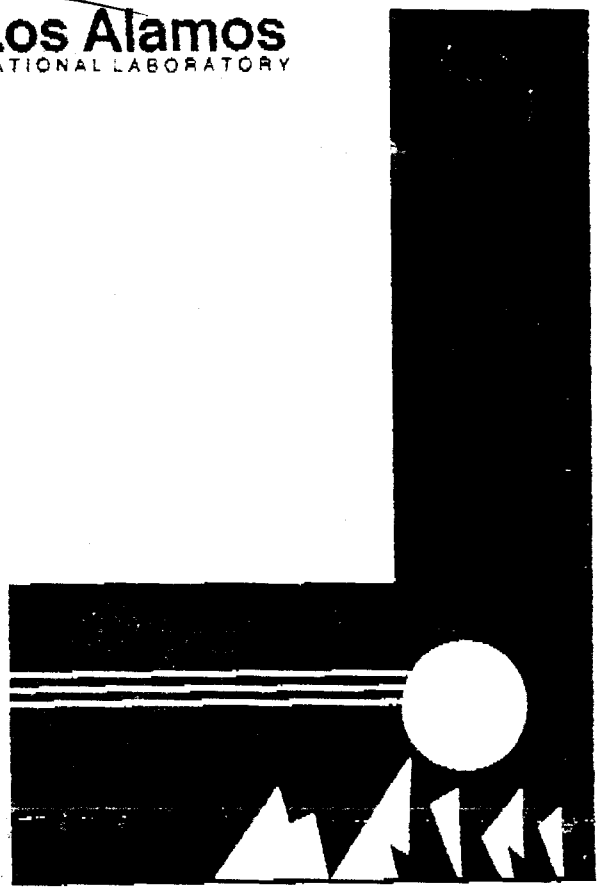
1993
Secret
Conference

APV
PCMT

NON-LETHAL DEFENSE

a classified Conference sponsored by

Los Alamos
NATIONAL LABORATORY



OBJECTIVE AND SCOPE

Non-lethal defense has emerged as a potent new means of applying force and giving commanders a wider array of options. The purpose of non-lethal defense is to inhibit an enemy's ability to prosecute a war or engage in other hostile actions. Non-lethal defense is an approach that explores options for attacking targets of strategic value, including non-traditional foes such as terrorists and international drug traffickers.

Non-lethal weapons offer new options to meet rapidly changing security requirements for the United States. These devices are providing for the first time a wide range of choices for planners negotiating the drastically changing security challenges confronting the United States.

Non-lethal concepts currently are being developed by the U.S. Army, Air Force, Navy and Marine Corps. The focus is on providing technologies that support conventional operations and have applicability across the continuum of conflict. Many of these techniques are designed to degrade the threat infrastructure in support of parallel warfare objectives.

Different organizations have different approaches to the concept of non-lethal defense as well as use of different terminology. In essence, non-lethal defense is an emerging technological option being developed conceptually with a sea of technical opportunity.

The purpose of this Conference is to bring together industry, government, and academia to explore the potential of non-lethal defense and identify requirements so that the defense community can work together in leveraging the non-lethal concept. Industry, particularly, will benefit from a more precise understanding of requirements and operational constraints regarding non-lethal defense technologies. All attendees will have the opportunity to embrace a new perspective in international relations.

The Conference Sessions Are Secret, U.S. Only

With the support of the American Defense Preparedness Association



OPM Technology Presentations

- Chemical/Biological Anti-Terrorism
Ms. Astrid Lewis, U.S. Army Chemical Research &
Development Command

- Biological Challenges
Dr. Pat Unkefer, Los Alamos National Laboratory

- Non-Lethal Research at INEL: Fracture &
Dynamic Behavior, Biotechnology, &
Structural Ceramics
Dr. Johnathan Epstein, Idaho National
Engineering Laboratory

- Contaminant Payloads
Mr. Ed Colston, Naval Surface Weapons
Center, Dahlgren

4:45PM Conference Closes

GENERAL INFORMATION

SECURITY CLEARANCE:

Clearance information must be submitted through each individual's Security Office and forwarded to:

Los Alamos National Laboratory
P.O. Box 1663, MS B236
Los Alamos, NM 87545

OR the information may be faxed to (505)667-1368, use the enclosed clearance form.

GENERAL INFORMATION (cont.)

ACCOMMODATIONS:

Columbia Inn
Wincopin Circle
Columbia, MD 21044
Phone: (410)730-3900
1-800-638-2817

You must contact the hotel directly to make room reservations. Refer to the ADPA Conference to receive the following group rates:

Rates: \$79.00 Single
\$94.00 Double

All rates are subject to 10% state and occupancy taxes. Cut-off date is October 25, 1993 to assure room availability.

TRANSPORTATION:

Refer to the attached map for the hotel and APL Kossiakoff Center locations. Bus service will be provided from the Columbia Inn to the Conference site. Ample parking is available at the Johns Hopkins APL Kossiakoff Center.

A shuttle runs from BWI Airport to the Columbia Inn and the fee is \$16.00 one way. It is best to call in advance at 410-381-2772 or 1-800-776-0323 outside of Maryland.

FEES:

Registration fees for the meeting are \$330 ADPA industry members and \$380 for ADPA industry non-members and \$150 for Government and Academia. Fees include banquet, lunches, coffee/soda breaks, and other logistical and administrative expenses.

LATE REGISTRATION:

For industry registrations received after November 8, 1993 or industry registrations at the door, the fee will be \$380 member ADPA, \$430 non-member ADPA. Payment at the door will be accepted by credit card, check, and cash.

REFUNDS/CANCELLATIONS:

There will be no refund for cancellations after November 8, 1993. For those cancellations received before this date there will be an administrative handling fee of \$50 deducted from the refunded amount.

HONORED GUESTS AND SPECIAL SPEAKERS



Banquet, November 16th
Dr. Edward Teller



Luncheon, November 16th
Lieutenant General Richard G. Trefry, USA (Ret.)
Military Advisor to President George Bush



Luncheon, November 17th
The Honorable Janet Reno
Attorney General of the United States

CONFERENCE CHAIRMAN

Dr. John Alexander, Program Manager for Non-Lethal
Defense, Los Alamos National Laboratory

AGENDA

TUESDAY, 16 NOVEMBER 1993

- 7:00AM Registration Opens, Kosiakoff Center Exhibits Open
- 8:30AM Welcome & Introductory Remarks
MG William E. Eicher, USA (Ret.)
Vice President, ADPA
- 8:45AM Opening Address
GEN E.C. "Shy" Meyer, USA (Ret.)
Former Chief of Staff, U.S. Army
- 9:15AM Non-Lethal Defense Technology
Dr. John Alexander
Los Alamos National Laboratory
- 9:45AM OSD Perspective
TBD
- 10:15AM BREAK
- 10:45AM Peacekeeping & Peace Enforcement Operations
Ms. Sarah Sewall, Deputy Assistant Secretary of Defense for Peacekeeping & Peace Enforcement
- 11:15AM National Institute of Justice "Less-Than-Lethal" Program
Mr. David Boyd, NIJ Director of Research & Technology
- 12:00PM LUNCH
Speaker: LTG Richard G. Trefry, USA (Ret.)
- 1:30PM Incremental Aggression: Requirements for the Future
Dr. Dan Goure, Deputy Director, Political-Military Studies CSIS, and Former Director of Competitive Strategies OSD
- 2:30PM BREAK

3:00 - 5:00PM Services & Special Operations Perspectives

- Army

LTG William H. Forster, USA
Military Assistant to the Assistant Secretary of the Army, (Research, Development & Acquisition)

- Navy

VADM William A. Owens, USN
Chief of Naval Operations (Resources, Warfare Requirements & Assessments)

- Air Force

Maj Gen Kenneth Minihan, USAF
Commander, Air Force Intelligence Command

- Special Operations

GEN Carl Stiner, USA (Ret.) (invited)
Former CINC Special Operations Command

6:00PM Reception in the Exhibit Area
Kossiakoff Center

7:00PM Banquet
Guest Speaker: Dr. Edward Teller

WEDNESDAY, 17 NOVEMBER 1993

7:00AM Registration Opens
Exhibits Open

8:30AM Technical Evaluation - Strategies to Tasks
Dr. David Ochmanek, Deputy Assistant Secretary Defense for Strategy

9:00AM RF Weapons: A Very Attractive Non-Lethal Option
Dr. George Baker, Assistant for Program Development, Defense Nuclear Agency

9:30AM ARPA Perspective
Dr. James Richardson, Special Assistant to the Director

10:00 BREAK

10:30AM Future Technology Conference Report (Quantico, VA 31 Aug-2 Sep 93)
Mr. Steve Small, Arms Program Liaison, Joint Services Small Arms Program

10:50AM Simulation & Modelling: Key to Non-Lethal Weapons
Mr. Andy Andrews, Non-Lethal Project Leader, Los Alamos National Laboratory

11:10AM Technology Presentations

- Acoustic Technology

Dr. John Dering, Scientific Applications Research Associates (SARA)

- High Power Microwave Technology

Dr. Henry Brisker, U.S. Army Research Laboratory

- Battlefield Optical Munitions

Dr. Martin Piltch, Los Alamos National Laboratory

- One Container Sticky Foams

Dr. Peter B. Rand, Sandia National Laboratory

- Application of Extremely Low Frequency

Electromagnetic Fields to Non-Lethal Weapons
Dr. Clay Easterly, Oak Ridge National Laboratory

- Non-Lethal Weapons

Dr. Milt Finger, Lawrence Livermore National Laboratory

12:00PM LUNCH

Speaker: The Honorable Janet Reno
Attorney General of the United States

1:30PM Technology Presentations

- Voice Synthesis

Dr. Dave Morgan, Lockheed-Sanders

- Airbag Restraint Technology

Ms. Donna Marts, Idaho National Engineering Laboratory

2:30PM BREAK