WORKSHOP AGENDAS

The first workshop was an introductory meeting for the APS and IEEE study panel on the Domestic Nuclear Detection Office Research and Development Strategy, held at DNDO Headquarters. The agenda for the first workshop was as follows:

Agenda for May 29, 2012

8:30-9:00 Check-In Washington

9:00-9:10 Welcome/Introductions Rynes

9:10-9:20 Director’s Priorities Stern

9:20-9:40 APS / IEEE Study Overview Trebes

Part One: DNDO Deep Dive

9:40-10:00 DNDO Overview Koeppel

10:00-10:30 Architecture and Planning Directorate (APD) Global Nuclear Detection Architecture (GNDA) Overview Bernard

10:30-10:45 Break

10:45-11:00 National Technical Nuclear Forensics Center (NTNFC) Ulicny

11:00-11:15 Systems Engineering and Evaluation Directorate (SEED) Wright

11:15-11:30 Red Teaming and Net Assessments (RTNA) Oliphant

11:30-11:45 Operations Support Directorate (OSD) Magrino

11:45-12:00 Product Acquisition and Deployment Directorate (PADD) Pardue

12:00-1:00 Lunch

Part Two: R&D Overview

1:00-1:30 Transformation and Applied Research Directorate Rynes

1:30-3:00 Advanced Technology Demonstrations (ATD)

1. Advance Radiation Monitoring Device (ARMD) Kuhn
2. Long Range Radiation Detection (LRRD) Vojtech
3. Airborne Radiological Extrasensory System (ARES) Kuhn
4. Intelligent Radiation Sensing System (IRSS) Ashenfelter
5. Shielded Nuclear Alarm Resolution (SNAR) Moon
6. Nuclear and Radiological Imaging Platform (NRIP) Rynes
7. Future ATDs Kuhn
3:00-3:15 Break

3:15-4:45 Research Portfolios

8. Materials Development and Supporting Technology Janos
9. Neutron Detection Including He-3 Replacements Giles
10. Radiation Detection Techniques Wrobel
11. Shielded Threat Detection Techniques Moon
12. Algorithms and Modeling Ashenfelter
13. Nuclear Forensics Jankowski
14. Future R&D Wrobel

4:45-5:00 Wrap-up
WORKSHOP AGENDAS

The second workshop was a two-day meeting for the full Study Committee, held at the National Conference Center in Leesburg, VA. The agenda for the second workshop was:

APS-IEEE DNDO Study Committee, Workshop II: Leesburg, VA – National Conference Center

July 26, 2012

8:00-8:15 AM  Introduction – Study Charge
James Trebes, Study Co-Chair

8:15-9:30 AM  Round Table Discussion with Transformation & Applied Research Directorate (TARD) Staff
James Trebes, Study Co-Chair
John Donnelly, Study Committee Member
Joel Rynes, Acting Assistant Director, TARD, Domestic Nuclear Detection Office (DNDO)

9:45-12:00 PM  SME Special Talks

“What’s Hard about Detecting and Identifying Shielded Fissionable Material?”
Dennis Slaughter, Study Committee Member

Shielded Threat Detection Portfolio Review: Current & Planned Portfolio
Namdoo Moon, Program Manager, SBIR, DNDO

Discussion
Richard Kouzes, Richard Lanza, Stan Prussin, Study Committee Members

Learning to Understand Nuclear Threat
Artur Dubrawski, Carnegie Mellon

1:00-3:30 PM  SME Special Talks, continued…

Algorithms/Modeling Portfolio Review: Current & Planned Portfolio
Tim Ashenfelter, Program Manager, TARD, DNDO

Discussion
Robert Borchers, Richard Kouzes, Study Committee Members

Operational Constraints
Ira Reese, U.S. Customs and Border Protection (CBP)

DTRA/NNSA/TARD Coordination
David Beach, National Nuclear Security Administration

3:45-5:30 PM  SME Special Talks, continued…

Radiation Detection at Borders
Richard Kouzes, Study Committee Member

Neutron Detection Portfolio Review: Current & Planned Portfolio
Alan Janos, Program Manager, DNDO
### 6:30-8:15 PM

**SME Special Talks, continued…**

**Material Portfolio Review: Current & Planned Portfolio**  
*Alan Janos, Program Manager, DNDO*

**Discussion**  
*Glenn Knoll, Study Committee Member*  
*Anthony Lavietes, Study Co-Chair*

**Nuclear Counterterrorism and Deterrence**  
*Rob Allen, LLNL*

### 8:15-8:45 PM

**Washington Round-up**  
*Ms. Jodi Lieberman, American Physical Society*

### July 27, 2012

### 8:00-8:15 AM

**Introduction – Logistics**  
*Anthony Lavietes, Study Co-Chair*

### 8:15-9:00 AM

**Uncertainty, Deterrence, Risk, Conops, Surge 1**  
*Mitchell Woodring, Senior Scientist, Detection Systems Group, National Security Directorate, PNNL*

### 9:00-10:00 AM

**Nuclear Forensics: Considerations for Success**  
*Stephen LaMont, Chief Scientist Office of Intelligence, Nuclear Materials Information Program (NMIP), U.S. Department of Energy*

### 10:15-12:00 PM

**Nuclear Forensics Portfolio Review: Current & Planned Portfolio**  
*Bill Uliciny, Rich Vjtech, TARD, DNDO*

**Discussion**  
*Jill Dahlburg, Stan Prussin, Study Committee Members*

### 12:45-1:45 PM

**Radiation Detection Techniques: Current & Planned Portfolio**  
*Austin Kuhn, Rich Vjtech, TARD, DNDO*

**Discussion**  
*Neil Johnson, Glenn Knoll, Study Committee Members*

### 1:45-2:30 PM

**Conclusion**  
*Richard Lanza, James Lund, Study Committee Members*

### 2:30 –

**Study Committee Postmortem**  
*Logistics of report writing, deadlines, discuss key conclusions*