

# UK RF Prelim Agenda

June 12-16, 2017

## Plenary

1. **Review of UK T&E capability for HPRF and HEL Directed Energy Systems (A)** *Dr. Richard Hoad, QinetiQ*
2. **High Power Joint Electromagnetic Non-Kinetic Strike (HIJENKS)** *Don Shiffler, AFRL, and Ryan Hoffman, ONR*

## RF DEW Technologies

1. **HPM Source Developments (A)** *Prof. Alan Phelps, University of Strathclyde*
2. **High Density Capacitors for Pulsed Power Applications (A)** *Kenneth Struve, Sandia National Laboratories (SNL)*
3. **Field Emission Study of Small Number of Carbon Fiber Field Emitters (A)** *Mike White, Air Force Research Lab*
4. **Operation of Sparkgaps After Long Term Storage (C)** *Paul White, MBDA UK Ltd*
5. **Operation of Sparkgaps with Hydrogen-based Gas Mixes (C)** *Paul White, MBDA UK Ltd*
6. **High Impedance Surface Antenna (C)** *Dr. Nigel Seddon, MBDA UK Ltd*
7. **HPM Pulse Generation using Time Reversal (C)** *Dr. Nigel Seddon, MBDA UK Ltd*
8. **Development of High Electric Strength K36 Dielectric Ceramic (A)** *David Cannell, CeramTec UK Ltd*
9. **Brassboard System Development (Secret)** *Susan Heidger, AFRL*
10. **HPM Source Test Bed Development (Secret)** *Jack Chen, NSWCCD*
11. **Pulse Power Component Development (Secret)** *Susan Heidger, AFRL*
12. **Air Force Research Laboratory Core Technical Competency for High Power Electromagnetic (HPEM) Overview (Secret)** *Bob Torres, NSWCCD, and AFRL*

## RF DEW Weapon Concepts and Military Utility

3. **Rationalising the Use of Radio Frequency Directed Energy (RF DE) Detectors (A)** *Barney Petit, QinetiQ*
4. **US/UK RF Relationship: The Tizard Mission to Today (Secret)** *Mary Lou Robinson, Air Force Research Laboratory*
5. **Counter-UAS Concepts and Military applications (Secret)** *David Powell, MBDA UK Ltd*
6. **MBDA Analysis Manager Overview (Secret)** *Rob Lewis, MBDA UK Ltd*
7. **RF Munitions and Military Utility (Secret)** *Jonathan Ward, MBDA UK Ltd*
8. **UK RF DEW R&T Research Programme (Secret)** *Peter Leask, MBDA UK Ltd*
9. **Mission Evaluation of Next Airborne Counter Electronics (MENACE) (Secret)** *Don Shiffler and Matt Domonokos, AFRL*

10. **HIJENKS Operational Analysis at NSWCCD (Secret)** *Matt McQuage, NSWCCD*

RF DEW Effects and Testing

1. **Remote Engine Disruption: An Update on RF Safe-Stop (C)** *Michael Duffield, e2v Technologies*
2. **Transient Testing for Military Systems (A)** *Tim Rees, QinetiQ*
3. **The Role of Human and Organizational Variation in System Recovery Times (Secret)** *Richard Farry, QinetiQ*
4. **Waveform Definition for a Counter-Electronics Weapon Based on Effectiveness Modeling (Secret)** *Dr. Timothy Clarke, AFRL/RDHE*
5. **Counter-UAS Effects Testing (Secret)** *Matthew Webster, MBDA UK Ltd*
6. **Assessment of RF Coupling into Variable Targets (Secret)** *Will Stewart, MBDA UK Ltd*
7. **HIJENKS Target and Effects Analysis at NSWCCD (Secret)** *Matt McQuage, NSWCCD, and Dr. Tim Clarke, AFRL*

RF DEW System Engineering and Integration

1. **Review of Hyperband and Mesoband Systems and Applications (Secret)** *Lewis Chatt, QinetiQ*
2. **Overview of the AFRL Directed Energy Institute High Performance Computing Software Applications Institute (DE HSAI) (C)** *Mike White, Air Force Research Lab*
3. **Recent AFRL Studies of HPM Platform Integration (Secret)** *Dr. Matt Domonkos, Air Force Research Laboratory*