### MONDAY, AUGUST 24

8 AM – 5 PM  
Registration, Conference Center Lobby

8 AM – Noon  
Exhibitor Move-In, Coquina and Mediterranean Ballroom Salon 6 – 8

8 AM – 2 PM  
Classified Session on Improvised Explosive Device (IED) Defeat at Shades of Green® Resort

3 – 5 PM  
Opening General Session, Mediterranean Ballroom Salon 1 – 5

6:30 – 9 PM  
Opening Reception, Coquina and Mediterranean Ballroom Salon 6 – 8

### TUESDAY, AUGUST 25

7 – 7:45 AM  
Continental Breakfast

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<thead>
<tr>
<th>8 – 10 AM</th>
<th>Palazzo Ballroom Salon A - C</th>
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</thead>
</table>
| 1. Munitions Constituents – Multi-Increment Sampling  
Session Chair – Brad McCowan  
- Munitions Constituents Results from 350+ FUDS MMRP Site Inspections – Mary Ellen Maly  
- Perform ISM Sampling to Depth at Fort Shafter, Hawaii – Gene Barber  
- Development of Decision Units for MIS Sampling – Mary Franquemont  
- USACE Multi-Increment Sampling Guidance for the MMRP – Deborah Walker |
Session Chair – Katherine Kaye  
- Characteristics of Advanced EMI Systems and Commercial Development – David George  
- Exploiting EMI Signals During Active Transmission – G. Schultz  
- Next Generation EMI Array for Detection and Discrimination of UXO – Stephen Billings  
- Comparison of EM1-1M2 and TM-Semuchromatic Technologies in Magnetic Soils – Debra Edwards  
- The Zonge Dynamic NanoTEM – Next Generation Multi-Component UOX Detection – Todd McGillic |
Session Chair – Scott Hill  
- Incidents Involving Ordnance Associated with Military Munitions Recovery – Jon Manthy  
- Munitions and Explosives of Concern Hazard Assessment (MECA) Methodology – Doug Maddox  
- EPA’s MEC Hazard Assessment Tool Applied to Redevelopment Areas – Chad Webb  
- Interim Risk Management: Protecting the Public Between SI and Cleanup – Jeffrey R. Swanson  
- Strategies to Get to RIP/RPC on Munitions Response Sites – Christopher Evans |
| 4. Product Manager – Countermine and Explosive Ordnance Disposal (EOD) Overview  
Session Chair – Richard Weaver & Jeff Purdy  
- Overview Brief – Jeff Purdy  
- Night Vision Electronic Sensors Directorate (NVESS) Overview – Richard Weaver  
- Night Vision Electronic Sensors Directorate (NVESS) Modeling – Terilee Hanshaw  
- Technology Challenges within Mine Detection Sensors – John Hagle |
| 5. Range Sustainment – Modeling  
Session Chair – Bonnie Packer  
- Range Sustainment Overview – Bonnie Packer  
- Modeling the Outdoor Dissipation of High Explosives – Susan Taylor  
- Surface Water Screening-Level Methods for Assessing Marine Corps Operational Ranges – Julie Dobschutz  
- Groundwater Evaluation Process for the USMC’s REVA Program – Julie Dobschutz  
- Quantifying Munitions Constituents (MC) Loading Rates at Operational Ranges – Michael Madl |

10:10 AM – Noon  
Break

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<th>10:30 AM – Noon</th>
<th>Palazzo Ballroom Salon D</th>
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| 6. Munitions Response Overview  
Session Chair – Joseph Murphy  
- Munitions Response – J.C. King  
- USACE UOX Technology Implementation Support to Range Modernization and MMRP – Bonnie Packer  
- Army MMRP Overview & Discussion – Mary Ellen Maly  
- ESTOC Munitions Response Initiatives – Herb Nelson |

7 – 7:45 AM  
Continental Breakfast

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<tr>
<th>8 – 10 AM</th>
<th>Palazzo Ballroom Salon E - F</th>
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| 7. Robotic Range Clearance Prize Competition  
Session Chair – Ellen Purdy  
This session will discuss the Cash Prize Competition. The purpose of the competition is to quickly tap into the innovation and ingenuity of the commercial robotic technology sector to improve the efficiency, safety and effectiveness of range clearances. Issues addressed will include how range clearance is currently conducted, how robots can be applied to range clearance tasks, and how the outcomes contribute to the selection of a follow-on contract. |
| 8. Range Sustainment – Green Session Chair – Barry Roberts  
- Improved UOX Detection in Magnetic Environments Through Linear Feature Analysis – Richard Kratzenbuhl  
- Enhancement of UOX Magnetic Data Using Stable Downward Continuation – Yaoguo Li  
- Automatic Detection of Magnetic UOX Anomalies in Noisy Environments – Kristoffer Davis  
- Range Sustainment Overview – Julie Dobschutz  
- Range Sustainment Overview – Michael Madl |

11:00 AM – Noon  
Break

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<th>11:30 AM – 1:30 PM</th>
<th>Palazzo Ballroom Salon F - H</th>
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| 11. Munitions Response – Removal  
Session Chair – Brenda Slater  
- Magnetic Unexploded Ordnance Recovery System (MURS) – Bill Lewis  
- Surf City, New Jersey Non-TORCA, Post-Beach Replenishment DMM Removal – Jeffrey Brewer  
- Remote-Operated UOX Removal Support for Range MILCON – Gene Fabian  
- UOX Clearance Utilizing Heavy Sifting Equipment at Camp Pendleton – Daniel Skrobialowski |
| 12. Range Sustainment – Green Session Chair – George Robiltielle  
- Semi-Autonomous and Tele-Operated Robotic Platforms, Future of MEC Geophysical Challenge – Bob Selfridge  
- UOX Technology Implementation – Bonnie Packer  
- Munitions Debris Swagger Process – William Ingold  
- Alternative Live Fire Ground Target (ALFGT) for Navy Bombing Ranges – Joey Troyala |
Session Chair – Victoria Kantios  
- Commercialization of Miniature Atomic Magnetometers – M. Prouy  
- Improved Magnetic STAR Technology for Localization and Classification of UXO – Roy Wieryg  
- Simplified Combined EMI and Magnetometer System for UXO Detection – Robert Siegel  
- An EMI System to Locally Integrate and Characterized Buried Objects – Bruce Barrow |
| 14. Explosive Ordnance Disposal (EOD) Overview  
Session Chair – Arnold Burr  
- Enhanced Blast Effect Hazards from Explosions Near Walls, Corners, Corridors – Aris Makris  
- The Tool Selection Aid and Transitioning of the MB3 Capability – Lee Foltz  
- Numerical Modeling for EOD Applications – Catherine Nolán  
- UAS in Support of the EOD Mission – Joseph Choitkowski |
| 15. Improved Explosive Device (IED) Technology  
Session Chair – Valter Ezernis  
- Effectiveness of Laser Neutralization Technology – John Schiavone  
- Use of Portable Abrasive Water Cutting for IED Defeating – Harley Heath  
- Field Results of TEPS-Raman Explosive Detection System (TREDS-2) – Robert Waterbury  
- Autonomous or Robotically Operated IED Detection (AROID) – Robert Pickett |

1:30 – 3:00 PM  
Luncheon, Mediterranean Ballroom Salon 1 – 5

1:30 – 3:30 PM  
Session Chair – Bonnie Packer  
- A Robot-Mounted EMI System for Identification of UOX-Free Corridor – Lloyd Rigg  
- Tracking a UXO Cart by Monitoring its EM Field – Keith Leslie  
- Self-Guiding Robotic System Surveying and Comparison to Traditional Survey Methods – Nathan Harrison  
- Robotic Shallow Water UOX Clearance – Bill Lewis

3:30 - 5:00 PM  
Break

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- Tracking a UXO Cart by Monitoring its EM Field – Keith Leslie  
- Self-Guiding Robotic System Surveying and Comparison to Traditional Survey Methods – Nathan Harrison  
- Robotic Shallow Water UOX Clearance – Bill Lewis |
| 17. Joint Service Explosive Ordinance Disposal (EOD) Overview  
Session Chair – Chris O’Donnell  
- Individual Service EOD Force Structure and Mission Update Navy – Chris O’Donnell  
- Individual Service EOD Force Structure and Mission Update Marine – Michael Todd  
- Individual Service EOD Force Structure and Mission Update Army – Bob Schiavone  
- Individual Service EOD Force Structure and Mission Update Air Force – Matthew Gebstadt  
- JASTO Policy Agreement Update – Chris O’Donnell |
| 18. Munitions Response – Advanced Electromagnetic Induction (EMI) Sensors  
Session Chair – Herb Nelson  
- Time-Domain EMI Sensor Systems for Buried Object Classification – Daniel Steinhardt  
- AllTEM UOX Classification and Detection Mission Update from 2009 YPG Data – Todd McGillic  
- Testing of the MetalMapper™ – An Advanced EMI Ordnance Detection System – Donna Snyder  
- MPV Multi-Object Data Inversion and Clutter Suppression Techniques – Ben Barrows |
| 19. Humanitarian Demining  
Session Chair – Zeko Topolosky  
- Veques, Puerto Rico Evaluations of Robotic Vegetation Clearance – John Metzel  
- Most Promising Landmine Neutralization Systems for Buried Mines – Dykayhler Filer  
- Simple Metal Detector Model to Predict Probability of Detection – Yann Yvinec  
- Detection and Chemistry of World War II Landmines: Implications on Area Reduction – Martin Jelens |
| 20. Munitions Response – Alternatives to Geophysical Prove-Outs (GPDs)  
Session Chair – Brent Knoblett  
- Geophysical System Verification (GSV) – A Physics-Based Approach – Tamir Klaff  
- Target Signal Response Curves – Naji Khair  
- Commercial Application of the Physics-Based Test Strip and Seeding Approach – Ryan Stauffer  
- Evaluation of TDEM and Magnetic Anomaly Characteristics (Inert and Surrogates) – Timothy Deignan |
21. Countermeasure Session Chair – Peter Howard
   ● Forward Looking Radar for Countermeasure Application – Tuan Ton
   ● Irreverent Actuation of Magnetic Fusion – Dave Rubenstein
   ● Physics-Based Countermeasure Identification of Ground Penetrating Radar Data – Christopher Ratto
   ● Optical Cues for Landmine Detection – James Staszewski

22. Office of the Secretary of Defense (OSD) Robotics Overview
   Session Chair – Ellen Purdy
   ● SafePath UGV Countermeasure Toolset for Autonomous Marking Safe Paths – Michael Fleming
   ● Autonomous Mine Detection System – Eloisa Lara
   ● Detecting EFPs During Road Clearance Ops: An Integrated Robotic Approach – Robert Douglas
   ● Robotic Systems Demonstration for the Army’s Range Modernization Program – Gene Fabian
   ● INVIB Remote Mine Clearing Vehicle and the Engineer Small Robot – Nancy Saxon
   ● Info Exchange Between Independently-Developed Heterogenous Products – Chad Trytten

23. Determining Explosive Hazards
   Session Chair – Mark Protvy
   ● X-ray Fluorescence: A Screening Technology with Application for Munitions Projects – Susan Burhett
   ● Inspection Criteria for Material Potentially Presenting an Explosive Hazard – Brian Helmlinger
   ● Planning the Recovery of Arsenic Filled Munitions – Daniel Noble
   ● Destruction of UXO Using Heat Contained Vessel – John Stine
   ● Case Study: Remote Thermal Decontamination of an AP Specialty Mixer – William Ingold

24. Special Topics
   Session Chair – Dan Michael
   ● For As Clean As Reasonably Achievable Ocean (ACARA Ocean) – Koichi Hayashi
   ● Concept of Floating Mobile Detection System of Sea Dumped Munitions – Koichi Hayashi

25. Munitions Response – Detection Challenges
   Session Chair – Bill Veith
   ● Smart Anatomy Selections, Getting the Most Out of Geophysical Data – Andrew Schilling
   ● Analysis of Variables for Detection of MEC in Dense Environments – Harry Wagner
   ● Digital Geophysical Mapping for Residual Ordnance Assurance – Matthew Gifford
   ● Chasing Red Dirt: Evolving Detection Solutions to Hawaiian Gold Mineralization – Benjamin Konstak
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<td>10:30 AM – Noon</td>
<td>Palazzo Ballroom</td>
<td>41. Munitions Response – Quality Considerations</td>
<td>Yaoguo Li</td>
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<td>42. Munitions Response – Community and Regulatory</td>
<td>Bill Harmon</td>
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<td>43. Range Sustainment – Risk Assessment</td>
<td>Dan Tompkins</td>
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<td>44. Munitions Response – Airborne Sensors for Wide Area Assessment</td>
<td>Jim Pastoreck</td>
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<td>10 – 10:20 AM</td>
<td>Palazzo Ballroom</td>
<td>46. Improved Explosive Device (IED) Policy and Technology</td>
<td>Chris O'Donnell</td>
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<td>47. Range Sustainment</td>
<td>Brooke Conway</td>
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<td>48. Munitions Response – Case Study</td>
<td>Dan Tompkins</td>
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<td>49. Evaluation and Planning</td>
<td>Darrell Hall</td>
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<td>50. Munitions Response – Classification Field</td>
<td>Michael Winningham</td>
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**Topical Areas:**
- Refining Quality Assurance Processes Within the Military Munitions Response Program
- Quality Considerations for Munitions Response Projects
- The Utility of Independent Quality Assurance in Munitions Response
- Case Study: Implementing the UFP-QAPP on MR Projects
- The UFP-QAPP – Your Partner in Planning Munitions and Range Investigation Projects
- Displaying Explosive Hazard Detection – John Hogle
- Displaying Explosive Removal – Lenny Meacham

**Session Chairs:**
- Brooke Conway
- Darrell Hall

**Break:**

**Conference Closing Luncheon:**
- Mediterranean Ballroom Salon 1 – 5

Current as of 9.2.2009